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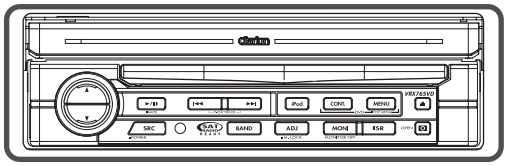
Service Manual



VRX765VD

DVD Multmedia Station with Touch Panel Controller

Model *VRX765VD*
(QC-6823B-A)
(NTSC/ Region No. "1")

Model *VRX766VD*
(QC-6823K-A)
(PAL/ Region No. "3")

Model *VRX766VD*
(QC-6823K-B)
(NTSC/ Region No. "3")

Model *VRX766VD*
(QC-6823K-C)
(PAL/ Region No. "4")

SPECIFICATIONS

FM tuner section

Frequency range:	87.9MHz to 107.9MHz(B-A)
	87.0MHz to 108.0MHz(K-A,B,C)
Usable sensitivity:	9dBf
50dB quieting sensitivity:	
	15dBf
Alternate channel selectivity:	
	70dB
Stereo separation:	35dB(1kHz)
Frequency response:	30Hz to 15kHz(+3/-3dB)

AM tuner section

Frequency range:	530kHz to 1710kHz(B-A)
	531kHz to 1629kHz(K-A,B,C)
Usable sensitivity:	28dBu

DVD player section

System:	Digital versatile disc system with CDDA capable
Usable discs:	DVD video disc,Compact disc
Frequency response:	20Hz to 20kHz(CD)(+1/-1dB)
Dynamic range:	100dB(1kHz)
Distortion:	0.01%

MP3 / WMA section

MP3 Sampling rate:	11.025kHz to 48kHz
MP3 Bit rate:	8kbps to 320kbps/VBR
WMA Bit rate:	48kbps to 192kbps
Logical Format:	ISO9660 level1, 2
	JOLIET or Romeo

Audio amplifier section

Maximum power output:	
	200W(50W x 4ch)
Rate power output:	14w X4ch
	at 20 Hz to 20kHz,1%,4 ohm
	(QC-6823K-A,B,C)
Power output:	19W x 4 at 4 ohm
	and 1 % THD+N (CEA-2006)
	(QC-6823B-A)
Speaker impedance:	4 ohm(4 to 8 ohm)

Input section

Video input:	1.0V+0.2/-0.2Vp-p (input impedance 75 ohm)
Audio input:	130mV+60/-60mVrms(High) 600mV+80/-80mVrms(Mid) 840mV+100/-100mVrms(Low) (input impedance 10k ohm or greater)

Video output section

Video output:	1.0V+0.2/-0.2Vp-p(output impedance 75 ohm)

LCD monitor section

Screen size:	7-inch wide type (152mm Width x 85mm Height)
Display method:	Transmission type TN liquid crystal display
Drive method:	TFT(thin-film transistor) active matrix driving
Pixels:	336,960(1440x234)

General

Power source voltage:	14.4V DC (10.8 to 15.6V allowable)
Ground:	Negative
Current consumption:	4.0A(1W)
Auto antenna rated current:	500mA less
Dimensions(mm):	Main unit 178(W)x50(H)x165(D) Remote control unit 54(W)x28.8(H)x155(D)
Weight:	Main unit 2.4kg Remote control unit 100g (including battery)

* Specifications comply with JEITA Standards.
* CEA-2006:New standard of Consumer Electronics Association.
* Specifications and design are subject to change without notice for further improvement.

NOTES

* As for this model, the tuner of the DSP type is used.When you exchange it due to the tuner pack(BL1:880-2091C) trouble, it is necessary to adjust for S-meter etc.Special JIG is necessary for an accurate adjustment.The procedure document for the exclusive use jig is appended to it.
* This DSP IC SAF7730H(051-6706-10) of main PWB is exposed die soldering pad type.
  The middle of this IC package is soldered with the main PWB, and it cannot remove in an ordinary soldering iron. Please use special removal JIG at the time of IC exchange.
* We cannot supply PWB with component parts in principle. When a circuit on PWB has failure , please repair it by component parts base. Parts which are not mentioned in service manual are not supplied.
* This DVD player can play the following discs.
  DVD video discs,Video CDs,CD text,Audio CDs.
* This DVD video player cannot playback DVD-Audio,DVD-RAM,Photo CDs,etc.
* This unit can play back CD-R/CD-RW,DVD-R/RW discs on which MP3/WMA music data have been recorded..
  This unit is a ID3 Tag compatible model.
  This unit supports the title,artist and album display of the ID3 Tag versions 1 and 1.1.
  After disc loading,the play mode is automatically engaged.
* This product incorporates copyright protection technology that is protected by U.S. patents and other intellectual property rights .
  Use of this copyright protection tecnology must be authorized by Macrovision, and is intended for home and other limited viewing uses only unless otherwise authorized by Macrovision.
  Reverse engineering or disassembly is prohibited.
* The DVD video system assigns a region number to DVD video players and DVD discs by sales area.
  The DVD video region number is marked on the disc jacket.
* This product includes technology owned by Microsoft Corporation and cannot be used or distributed without a license from MSLGP.
* Manufactured under license from Dolby Laboratories.
  "Dolby" and the double-D symbol are trademarks of Dolby Laboratories.
* "DTS" and "DTS Digital Out" are trademarks of Digital Theater Systems,Inc.
* "iPod" is for legal or righthoder-authorized copying only.Do not steal music.

COMPONENTS

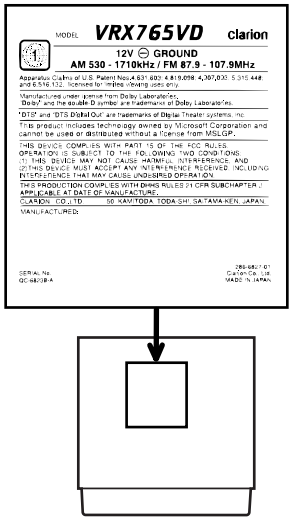
QC-6823B-A,K-A,K-B

Main unit	----------	1
Remote control unit	RCB-177-200	1
Batteries(AA.SUM-3)	----------	2
Universal mounting bracket	300-9035-01	1
DCP case	335-6035-60	1
Power supply lead(18P)	854-6420-50	1
Outer escutcheon	940-8145-00	1
Parts bag	----------	
Electro tap	060-0018-00	1
Machine screw(M4 x3)	714-4003-8H	4
Flat head screw(M5 x8)	714-5008-4B	4
Sems hex. bolt(M5 x8)	716-0496-501	5
Parts bag	----------	
Hook plate	330-8216-01	2
Cord clamp	335-0833-01	1
Rubber cap	345-3653-01	1
Screw(M5 x10)	716-0726-51	1
Parts bag	----------	
Pad screw(M1.7 x5 Blk)	716-0872-52	1
Parts bag	----------	
RCA CAP	345-3799-20	12

CAUTIONS

Use of controls,adjustment or performance of procedures other than those specified herein,may result in hazardous radiation exposure.

The compact disc player should not be adjusted or repaired by anyone except properly qualified service personnel.


MODEL VRX765VD Clarion
12V ⊖ GROUND
AM 530 - 1710kHz / FM 87.9 - 107.9MHz
THIS DEVICE COMPLIES WITH PART 15 OF THE FCC RULES.
OPERATION IS SUBJECT TO THE FOLLOWING TWO CONDITIONS:
(1) THIS DEVICE MAY NOT CAUSE HARMFUL INTERFERENCE, AND
(2) THIS DEVICE MUST ACCEPT ANY INTERFERENCE RECEIVED, INCLUDING
INTERFERENCE THAT MAY CAUSE UNDESIRED OPERATION.
THIS PRODUCTION COMPLIES WITH DHHS RULES 21 CFR SUBCHAPTER J
APPLICABLE AT DATE OF MANUFACTURE.
CLARION CO.,LTD 50 KAMITODA TODA-SHI SAITAMA-KEN, JAPAN
MANUFACTURED:

QC-6823B-A

To engineers in charge of repair or inspection of our products.

Before repair or inspection, make sure to follow the instructions so that customers and Engineers in charge of repair or inspection can avoid suffering any risk or injury.

1. Use specified parts.
   The system uses parts with special safety features against fire and voltage. Use only parts with equivalent characteristics when replacing them.
   The use of unspecified parts shall be regarded as remodeling for which we shall not be liable. The onus of product liability (PL) shall not be our responsibility in cases where an accident or failure is as a result of unspecified parts being used.
2. Place the parts and wiring back in their original positions after replacement or re-wiring.
   For proper circuit construction, use of insulation tubes, bonding, gaps to PWB, etc, is involved. The wiring connection and routing to the PWB are specially planned using clamps to keep away from heated and high voltage parts. Ensure that they are placed back in their original positions after repair or inspection.
   If extended damage is caused due to negligence during repair, the legal responsibility shall be with the repairing company.
3. Check for safety after repair.
   Check that the screws, parts and wires are put back securely in their original position after repair. Ensure for safety reasons there is no possibility of secondary ploblems around the repaired spots.
   If extended damage is caused due to negligence of repair, the legal responsibility shall be with the repairing company.
4. Caution in removal and making wiring connection to the parts for the automobile.
   Disconnect the battery terminal after turning the ignition key off. If wrong wiring connections are made with the battery connected, a short circuit and/or fire may occur. If extensive damage is caused due to negligence of repair, the legal responsibility shall be with the repairing company.
5. Cautions in soldering
   Please do not spread liquid flux in soldering.
   Please do not wash the soldering point after soldering.
6. Cautions in soldering for chip capacitors
   Please solder the chip capacitors after pre-heating for replacement because they are very weak to heat.
   Please do not heat the chip capacitors with a soldering iron directly.
7. Cautions in handling for chip parts.
   Do not reuse removed chips even when no abnormality is observed in their appearance. Always replace them with new ones. (The chip parts include resistors, capacitors, diodes, transistors, etc).
   Please make an operation test after replacement.
8. Cautions in handling flexible PWB
   Before working with a soldering iron, make sure that the iron tip temperature is around 270℃. Take care not to apply the iron tip repeatedly(more than three times)to the same patterns. Also take care not to apply the tip with force.
9. Turn the unit OFF during disassembly and parts replacement. Recheck all work before you apply power to the unit.
10. Cautions in checking that the optical pickup lights up.
    The laser is focused on the disc reflection surface through the lens of the optical pickup. When checking that the laser optical diode lights up, keep your eyes more than 30cms away from the lens. Prolonged viewing of the laser within 30cms may damage your eyesight.
11. Cautions in handling the optical pickup
    The laser diode of the optical pickup can be damaged by electrostatic charge caused by your clothes and body. Make sure to avoid electrostatic charges on your clothes or body, or discharge static electricity before handling the optical pickup.

11-1. Laser diode
The laser diode terminals are shorted for transportation in order to prevent electrostatic damage. After replacement, open the shorted circuit. When removing the pickup from the mechanism, short the terminals by soldering them to prevent this damage.

11-2. Actuator
The actuator has a powerful magnetic circuit. If a magnetic material is put close to it. Its characteristics will change. Ensure that no foreign substances enter through the ventilation slots in the cover.

11-3. Cleaning the lens
Dust on the optical lens affects performance.
To clean the lens, apply a small amount of isopropyl alcohol to lens paper and wipe the lens gently.

ERROR DISPLAYS

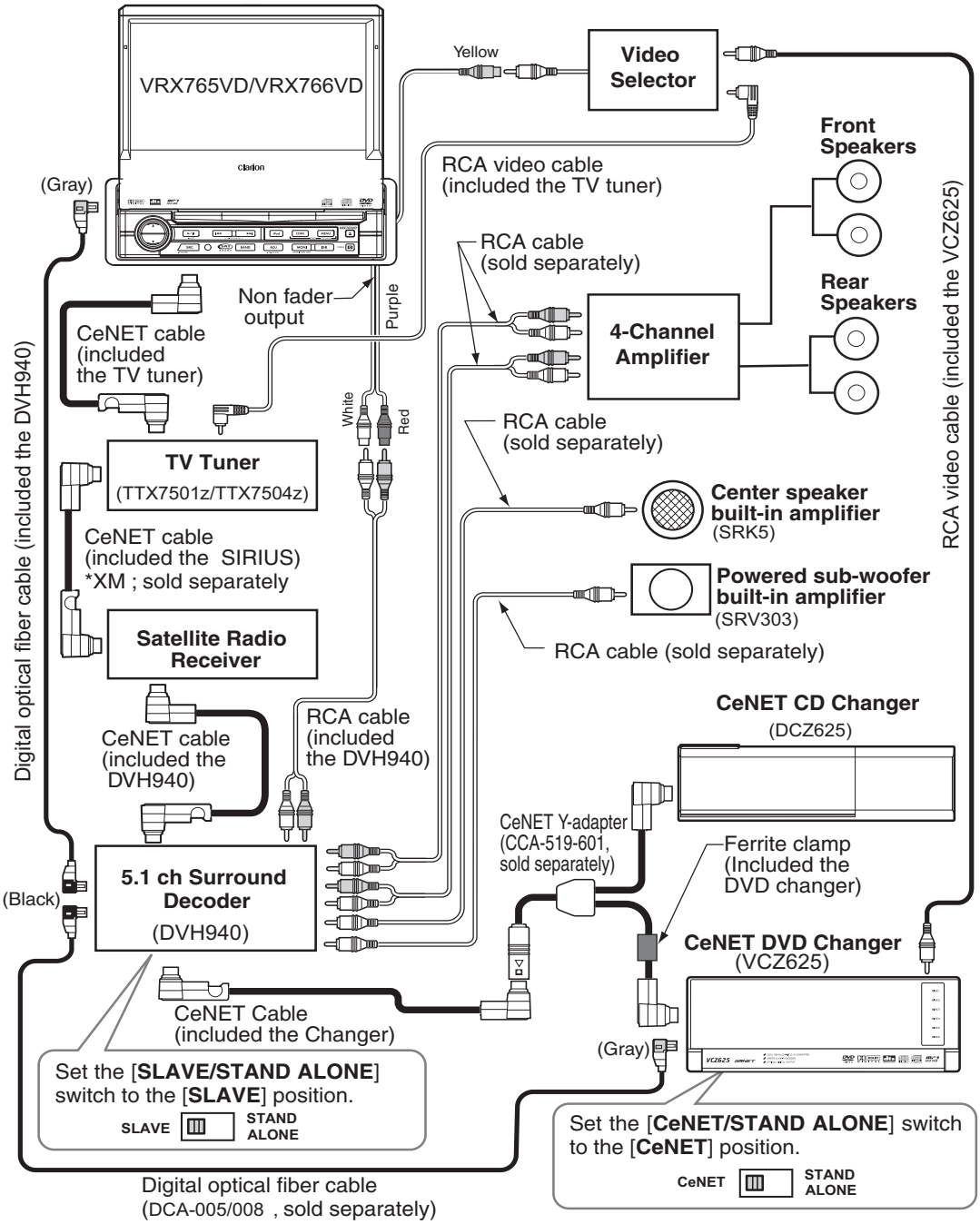
If an error occurs,one of the following displays is displayed.Take the measures described below to eliminate the problem.

	Error display	Cause	Measure
DVD player	ERROR 2	A CD is caught inside the CD deck and is not ejected.	This is a failure of CD deck's mechanism and cinsolt your store of purchase.
	ERROR 3	A CD cannot be played due to scratches,etc.	Replace with a non-scratched,non-warped disc.
	ERROR 6	A CD is loaded upside-down inside the CD deck and does not play.	Eject the disc then reload it properly.
CD changer	ERROR 2	A CD inside the CD changer is not loaded.	This is a failure of CD changer's mechanism.
	ERROR 3	A CD inside the CD changer cannot be played due to scratches,etc.	Replace with a non-scratched,non-warped disc.
	ERROR 6	A CD inside the CD changer cannot be played because it is loaded upside-down.	Eject the disc then reload it properly.

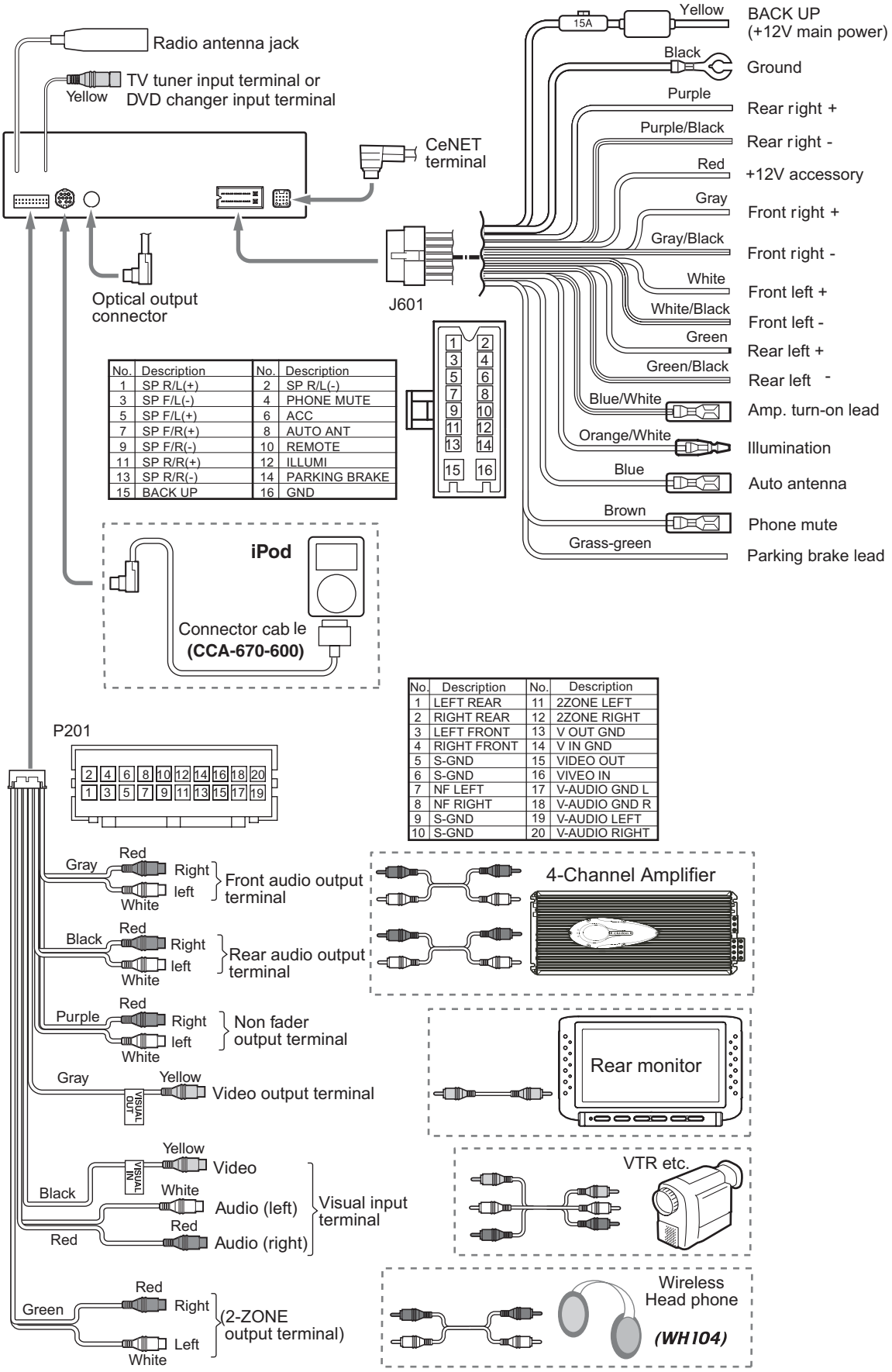
Note:If an error display other than the ones described above appears, press the reset button.

* When the reset button is pressed,frequencies of TV/radio stations,titles,etc. stored in memory are cleared.

SYSTEM CONNCTION



WIRE CONNECTION

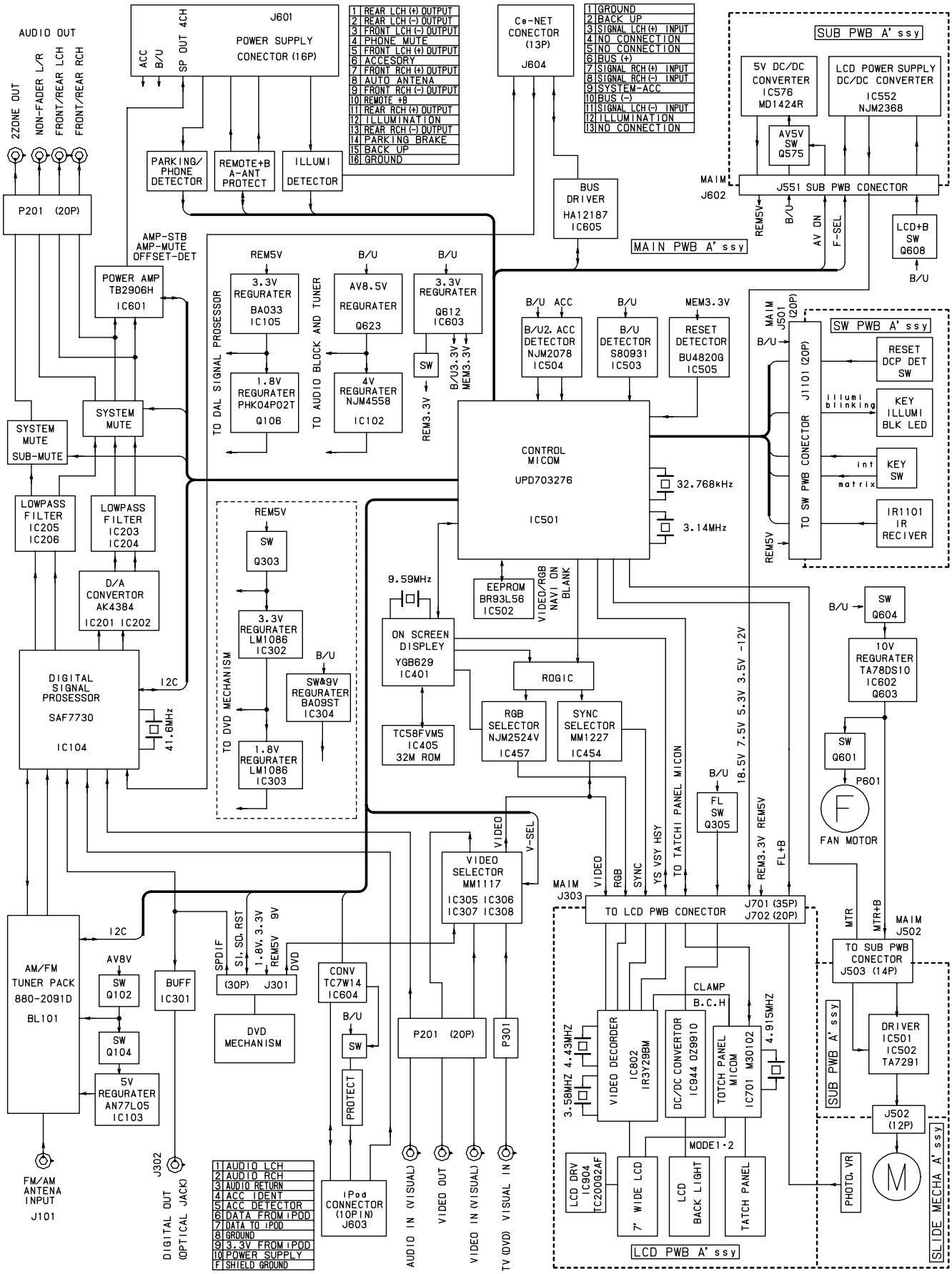


No.	Description	No.	Description
1	SP R/L(+)	2	SP R/L(-)
3	SP F/L(-)	4	PHONE MUTE
5	SP F/L(+)	6	ACC
7	SP F/R(+)	8	AUTO ANT
9	SP F/R(-)	10	REMOTE
11	SP R/R(+)	12	ILLUMI
13	SP R/R(-)	14	PARKING BRAKE
15	BACK UP	16	GND

No.	Description	No.	Description
1	LEFT REAR	11	2ZONE LEFT
2	RIGHT REAR	12	2ZONE RIGHT
3	LEFT FRONT	13	V OUT GND
4	RIGHT FRONT	14	V IN GND
5	S-GND	15	VIDEO OUT
6	S-GND	16	VIVEO IN
7	NF LEFT	17	V-AUDIO GND L
8	NF RIGHT	18	V-AUDIO GND R
9	S-GND	19	V-AUDIO LEFT
10	S-GND	20	V-AUDIO RIGHT

BLOCK DIAGRAM

Main unit section



ADJUSTMENTS

*Refer to the printed circut board(47,50 or 51 pages)for an adjustment point and VR.

*The NTSC (K-A:PAL)composite output signal of the signal generators of adjustment is performed with the following output.Video input of visual mode.

A image signal: 714mV

A synchronized signal: 286mV

Sub PWB section

1. Confirm the power supply voltage
   Input signal: 10-steps wave
   Measurement is performed by composite screen display.It measures by digitalbolt meter and DIMMER is 100%.

1-1.Adjust VR551 so that voltage of TP593 is 5.30 +0.02/-0.02V.
Caution: A LCD controller will be damaged if the voltage beyond 5.45V is added.

1-2.Confirm that TP556 is 3.3 +0.2/-0.2V

1-3.Confirm that TP558 is 7.5 +0.2/-0.2V

1-4.Confirm that TP559 is 18.5 +0.8/-0.8V

1-5.Confirm that TP555 is -12.0 +0.5/-0.5V

LCD PWB section

2. Confirm the PLL lock
   Input signal: 10-steps wave

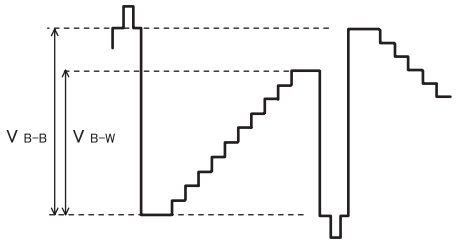
2-1.It checks that see a screen and 10 gradation display do not have a synchronous flow.
After checking and uniting the freerun frequency of item 9.when the synchronoization cannot be taken.

3. BRIGHT voltage adjustment
   Input signal: 10-steps wave
   Mesurement is performed by composite screen display.
   It measures by digital bolt meter.

3-1.Adjust VR804(BRIGHT) so that the voltage of TP805(BRIGHT) will become 2.00 +0.02/-0.02V.

4. RGB-AMP adjustment (black-black)
   Input signal: 10-steps wave
   Measurement is performed by composite screen display.
   It measures with an oscilloscope.

4-1.Adjusts VR805 so that the black-black level (V B-B) of the waveform of TP861 (G) will become 4.0 +0.1/-0.1V. (Refer to Fig. 1)



(Fig. 1)

5. Contrast adjustment (black-white)
   Input signa: 10-steps wave
   Measurement is performed by composite screen display.
   It measures with an oscilloscope.

5-1.Adjusts VR801 so that the black-black level (V B-w) of the waveform of TP861 (G) will become 3.8 +0.1/-0.1V. (Refer to Fig. 1)

6. Gamma voltage check
   Input signal: 10-steps wave
   Measurement is performed by composite screen display.
   It measures with an oscilloscope.

6-1.Confirm the waveform of TP861(LCD G) that ten gradation has come out.

6-2.It checks that it is the 3rd gradation is 2.3+0.2/-0.2V.

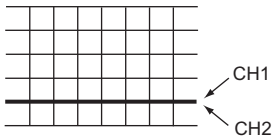
6-3.Confirm that TP806(Gamma 0) is 2.30 +0.20/-0.20V

6-4.Confirm that TP807(Gamma 2) is 2.13 +0.20/-0.20V

7. White balance adjustment
   Input signal: 10-steps wave
   Measurement is performed by composite screen display.
   It measures DC range of an oscilloscope.
   *Are careful in order to perform correctly white balance adjustment.

*1. The range of CH1,CH2 of an oscilloscope is used as 1V range.

*2. CH1,CH2 are indicated by GND and GND is united. (Refer to Fig. 2)



(Fig. 2)

7-1.White balance red adjustment

7-1-1.The waveform of TP861 is displayed on CH1 of an oscilloscope, and the waveform of TP862(LCD-R) is displayed on CH2.

7-1-2.Adjust VR802(BRT-R) so that the waveform of TP862(LCD-R) will become the same as the waveform of TP861.

7-2.White balance blue adjustment

7-2-1.The waveform of TP861 is displayed on CH1 of an oscilloscope, and the waveform of TP860(LCD-B) is displayed on CH2.

7-2-2.Adjust VR803(BRT-B) so that the waveform of TP860(LCD-B) will become the same as the waveform of TP861.

8. VCOM AC adjustment
   Input signal: 10-steps wave
   Measurement is performed by composite screen display.
   It measures with an oscilloscope.

8-1.Adjust the VR806(VCOM AC) so that amplitude of a waveform of TP852(VCOM AC) is 7.0+0.1/-0.1V.
There are no abnormalities, such as distortion, in a waveform.

9. Free run frequency adjustment
Input signal: 10-steps wave
Measurement is performed by composite screen display.
It measures by frequency counter and DIMMER is 100%.
9-1.Adjust VR941 so that the frequency of TP949 will become to 15.734kHz+10/-10Hz.
*TP804 is made to short-circuit to GND. It checks that the voltage of TP951 is 1.61+0.20/-0.20V at this time.
And checks that the voltage of TP952 is same.

10. PAL burst cleaning coil adjustment
Input signal:The color bar signal of PAL.
It measures with an oscilloscope etc.
10-1.Adjust L803 coil so that change TP860(LCD-B) of a color waveform may be lost.
11. BRT/COL/HUE check
Input signal: Split color bar signal
11-1.Comfirm that the color bar is normally displayed at state to begin.
11-2.Comfirm that the BRT/COL/HUE control is moved screen.
11-3.Comfirm the superimposition display is normally.

12. V-MUTE check
Input signal:Split color bar signal
12-1.Comfirm a composite video screen is mute of V-MUTE:"H" .

13. Wide mode check
Input signal:Split color bar signal
13-1. Comfirm a wide mode changed screen(Full wide /Wide /Cinema /Normal).

14. Screen position check
Input signal: Mono-sucpeo signal.
14-1.Comfirm that the screen is displayed in the center by mono-scope display (Video mode).
14-2.Comfirm that the screen is displayed in the center by radio screen display (RGB mode).

15. Synchronicity condition check
15-1.Comfirm a normal display by DVD playback (main menu) of HITOMI.

16. Key sw operation/Illum check
16-1Comfirm that key operation can be performed.
16-2Comfirm the key illum lighting .

17. Back light check
Power supply voltage: 13.2V
DIMMER=100%
17-1.Comfirm the TP962 freqency is 63kHz +5/-5kHz.
17-2.Comfirm the TP961 voltage is 5.2V +0.5/-0.5V.
17-3.Comfirm the light on at the power supply voltage to 10V.
17-4.Comfirm check at DIMMER control changes so that brightness changes.

18. VCOM-DC check
Input signal:10-steps wave
Measurement is performed by composite screen display.
18-1.Adjust VR807(VCOM DC) so that a screen flicker may become the minimum.

Main PWB section

19. TV delay time adjustment
Adjustment is performed in TV mode and the stable channel which does not have disorder in a screen is used.
It acts as the monitor of the signal of TP329 (Normal horizontal synchronous input) and TP421 (Delay output synchronization).
19-1.To falling of the Horizontal Synchronizing signal of TP329, VR401 is adjusted so that falling of TP421 may be overdue 3.50 +0.1/-0.1 uS
19-2.Confirm that Low level time of TP421 is 4.7 +0.7/-0.7uS.
19-3.It checks whether there is any gap in the right-and-left balance of a superimposition display to TV image, or the character has not passed by the end after the adjustment.
Recommends connected TV tuner :TTX7501Z(ZT-4620B-A) for NTSC,:TTX7504Z(ZT-4610K-A) for PAL(s).

20. S-meter adjustment of BUS-tuner
The adjustment data is written in the memory of EEPROM(IC502).The special jig and software are necessary for BUS-TUNER adjustment.
* CeNET-analyzer
* Windows installed Personal computer
* SSG
* Adjustment-Software(Ver.Y4-S009-513-20051111)

a. Installation of software in the set-folder of the writing E2P.
b Connect CeNET-analyzer to the unit with the CeNET-cable.
c Connect CeNET-analyzer(MASTER/SLAVE side) to the PC with the serial crossing cable.
d Connect POWER-lead of CeNET-analyzer to the POWER-lead of the unit.
e Connect the antenna to the unit.(FM-ANT for first adjustment)
f Turn on CeNET-analyzer,and press the RESET-button of it.

20-1.Set up the software
20-1-1.Click [ADJ_DSP].
20-1-2.Click [open Comm PORT].(To open the COM port of PC)
20-1-3.Click [Initialization of JIG].(The BUS-analyzer sounds)
20-1-4.Click [Incoming connection].(The unit is recognized to the BUS-analyzer)
The data is displayed, and the display changes regularly.

20-2.PRN data writing / Set up FM-IF-Offset data
20-2-1.Click [Initial EEPROM with CS 16], and select PRN-FILE.
The PRN-data is write in EEP-ROM of the unit.
20-2-2.Confirm "OK" display after writing of data.
20-2-3.Click [Setting-prn] under "FM IF-COUNT".(the written FM-IF-Offset data becomes effective.)

20-3.Adjustments FM S-meter
20-3-1.Set SG output to 65dBuV.(FM)
20-3-2.Click [Adj,HI] of "FM S-Meter".(Wait until the value stops.)

20-3-3.Set SG output to 55dBuV.(FM)
20-3-4.Click [Adj,LO] of "FM S-Meter".(Wait until the value stops.)
20-3-5.Click [Check].If the display is not within +/-0.5dBuV of ANT-output level of SG, readjust with "MOD-ON"(22.5kHz 400Hz).

20-4.Set up FM-IF-Offset data
* Exchange the antenna for "AM-ANT-dummy"
<!8>20-4-1.Click [Setting-prn] under "AM IF-COUNT".(The AM-IF-Offset data of EEPRON is effective.)
20-4-2.Click [Check], and confirm the display is within +/-500.0.

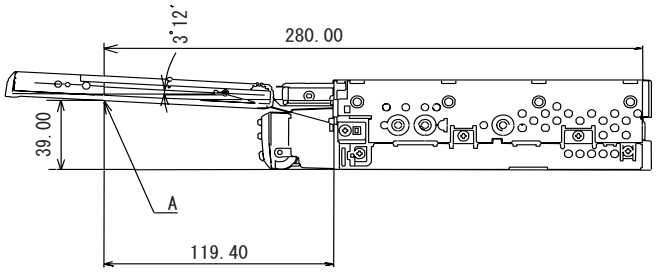
20-5.Adjustments AM S-meter
20-5-1.Set SG output to 70dBuV.(AM)
20-5-2.Click [Adj,HI] of "AM S-Meter".(Wait until the value stops.)
20-5-3.Set SG output to 40dBuV.(AM)
20-5-4.Click [Adj,LO].(Wait until the value stops.)
20-5-5.Click [Check]. If the display is not within +/-0.5dBV of ANT-output level of SG, readjust with "MOD-ON"(30% 400Hz).
Finally, push the reset button of the unit.

When computer continues to freeze, click [RESET] of "MENU", and readjust the lost adjustment point.IF not returning, press the RESET-button of CeNET-analyzer.and restart adjustment from the first step.

21. OSD dot adjustment
An adjustment screen is performed on the "T-PNL" screen, or the 9th screen (five-step display) of "COLOR-BAR" in the test mode.
Please choose the screen which is easy to adjust from either.
21-1.The hole has opened in the Lower case and it adjusts by VR451 mounted in the MAIN-PWB solder side.
21-2.In the case of adjustment in a T-PNL screen
It adjusts so that the white line of a 1-dot display long may be vividly displayed.
21-3.In the case of adjustment by 9th COLOR-BAR
It adjusts so that the white line of top, the bottom and inside may be displayed as clear white.

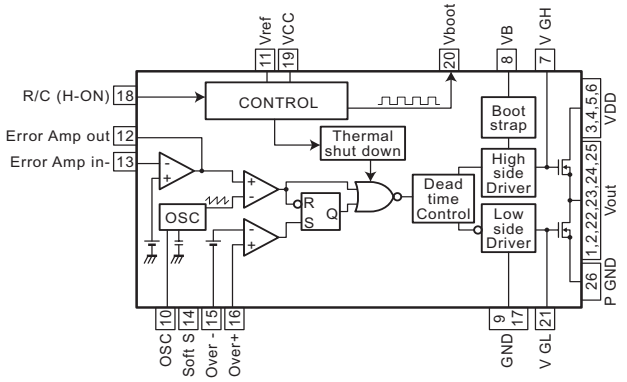
Slide mechanism section

23 Horizontally position
Calibration jig is used in order to memorize a horizontal level position.
Please refer to an attached figure A.
It is made to memorize horizontally among a figure in the position of points.
It is performing giving about 3 degrees of angles intentionally.
If the MUTE button and the ISR button are pushed, a beep sound will sound.
A calibration begins at the time.
Flow of operation
a. Slide OPEN
b. Tilt up: Memory of 110 degree position
c. Tilt down: Memory of horizontally position (Jig used)
d. Tilt up
e. Tilt down
f. Slide CLOSE
g. Calibration end

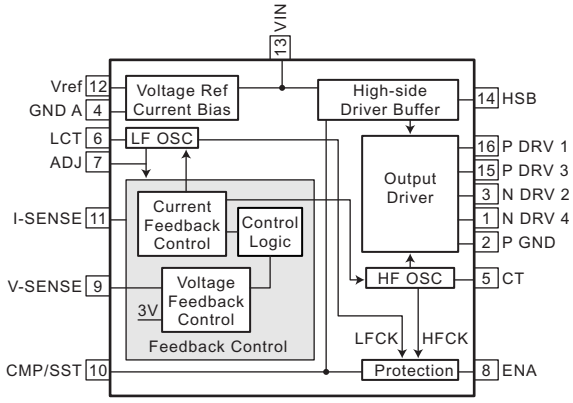


EXPLANATION OF IC

051-3924-90 MD1424R DC to DC Converter



051-3925-90 OZ9910ISN-T2 Dual Forward PWM Controller



TerminalDescription

pin 1: N DRV 4 : Bottom MOSFET gate drive output in dual forward converter.
pin 2: P GND : High-current power ground.
pin 3: N DRV 2 : Bottom MOSFET gate drive output in dual forward converter.
pin 4: GND A : Low-current signal ground.
pin 5: CT : High frequency oscillator capacitor for operation and striking frequency.
pin 6: LCT : Low frequency timing capacitor for LPWM dimming and striking timer.
pin 7: ADJ : Signal input for LPWM/ analog dimming.
pin 8: ENA : Enable and reset.
pin 9: V-SENSE : Transformer output over-voltage and over-current detection.
pin 10: CMP/SST : Soft start and loop compensation capacitor.
pin 11: I-SENSE : Lamp current sensing and lamp "on" detection.
pin 12: Vref : Reference voltage output.
pin 13: VIN : Supply voltage for IC.
pin 14: HSB : High side driver buffer output.
pin 15: P DRV 3 : Top MOSFET gate drive output in dual forward converter.
pin 16: P DRV 1 : Top MOSFET gate drive output in dual forward converter.

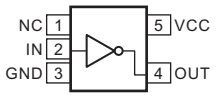
051-6456-00 YGV629-VZ Video display processor

TerminalDescription

pin 1: PLL VDD : - : PLL power supply.
pin 2: PLL FILTER : - : PLL filter connection.
pin 3: PLL VSS : - : PLL ground.
pin 4: NC : - : Not in use.
pin 5: PLL CTL 5 : IN: PLL multiply select.
pin 6: PLL CTL 4 : IN: PLL multiply select.
pin 7: PLL CTL 3 : IN: PLL multiply select.
pin 8: PLL CTL 2 : IN: PLL multiply select.
pin 9: PLL CTL 1 : IN: PLL multiply select.
pin 10: PLL CTL 0 : IN: PLL multiply select.
pin 11: DT CK Sel_N : IN: Display clock select.
pin 12: DT CK IN : IN: Display clock input.
pin 13: VSS : - : Digital ground.
pin 14: VDD : - : Digital power supply.
pin 15: CPU D 0 : I/O: CUP interface. Data bus.
pin 16: CPU D 1 : I/O: CUP interface. Data bus.
pin 17: CPU D 2 : I/O: CUP interface. Data bus.
pin 18: CPU D 3 : I/O: CUP interface. Data bus.
pin 19: CPU D 4 : I/O: CUP interface. Data bus.
pin 20: CPU D 5 : I/O: CUP interface. Data bus.
pin 21: CPU D 6 : I/O: CUP interface. Data bus.
pin 22: CPU D 7 : I/O: CUP interface. Data bus.
pin 23: CPU WAIT_N : O : CUP interface. Wait.
pin 24: CPU READY_N : O : CUP interface. Ready.
pin 25: CPU INT_N : O : CUP interface. Interrupt.
pin 26: VDD : - : Digital power supply.
pin 27: VSS : - : Digital ground.
pin 28: CPU CS_N : IN: CUP interface. Chip select.
pin 29: CPU WR_N : IN: CUP interface. Write command.
pin 30: CPU RD_N : IN: CUP interface. Read command.
pin 31: CPU PS 2 : IN: CUP interface. Port select.
pin 32: CPU PS 1 : IN: CUP interface. Port select.
pin 33: CPU PS 0 : IN: CUP interface. Port select.
pin 34: CPU SD OUT : O : CUP interface. Serial data output.
pin 35: CPU S D IN : IN: CUP interface. Serial data input.
pin 36: CPU S CS_N : IN: CUP interface. Serial chip select.
pin 37: CPU S CLK : IN: CUP interface. Serial clock.
pin 38: CPU SER_N : IN: CUP interface. Parallel/Serial select.
pin 39: CPU RESET_N : IN: CUP interface. Reset.
pin 40: VSS : - : Digital ground.
pin 41: VDD : - : Digital power supply.
pin 42: Memo A 0 : O : Pattern Memory interface. Address output.
pin 43: Memo A 1 : O : Pattern Memory interface. Address output.
pin 44: Memo A 2 : O : Pattern Memory interface. Address output.
pin 45: Memo A 3 : O : Pattern Memory interface. Address output.
pin 46: Memo A 4 : O : Pattern Memory interface. Address output.
pin 47: Memo A 5 : O : Pattern Memory interface. Address output.
pin 48: VSS : - : Digital ground.
pin 49: Memo A 6 : O : Pattern Memory interface. Address output.
pin 50: Memo A 7 : O : Pattern Memory interface. Address output.
pin 51: Memo A 8 : O : Pattern Memory interface. Address output.
pin 52: Memo A 9 : O : Pattern Memory interface. Address output.
pin 53: Memo A 10 : O : Pattern Memory interface. Address output.
pin 54: Memo A 11 : O : Pattern Memory interface. Address output.
pin 55: VDD : - : Digital power supply.
pin 56: VSS : - : Digital ground.
pin 57: Memo A 12 : O : Pattern Memory interface. Address output.
pin 58: Memo A 13 : O : Pattern Memory interface. Address output.
pin 59: Memo A 14 : O : Pattern Memory interface. Address output.
pin 60: Memo A 15 : O : Pattern Memory interface. Address output.
pin 61: Memo A 16 : O : Pattern Memory interface. Address output.
pin 62: Memo A 17 : O : Pattern Memory interface. Address output.
pin 63: VSS : - : Digital ground.
pin 64: Memo A 18 : O : Pattern Memory interface. Address output.
pin 65: Memo A 19 : O : Pattern Memory interface. Address output.
pin 66: Memo A 20 : O : Pattern Memory interface. Address output.
pin 67: Memo A 21 : O : Pattern Memory interface. Address output.
pin 68: Memo A 22 : O : Pattern Memory interface. Address output.
pin 69: Memo A 23 : O : Pattern Memory interface. Address output.
pin 70: Memo A 24 : O : Pattern Memory interface. Address output.
pin 71: VDD : - : Digital power supply.
pin 72: VSS : - : Digital ground.
pin 73: Memo WE_N : O : Pattern Memory interface. Write command.

pin 74: Memo OE_N : O : Pattern Memory interface. Output enable.
pin 75: Memo D 15 :I/O: Pattern Memory interface. Data I/O.
pin 76: Memo D 7 :I/O: Pattern Memory interface. Data I/O.
pin 77: Memo D 14 :I/O: Pattern Memory interface. Data I/O.
pin 78: Memo D 6 :I/O: Pattern Memory interface. Data I/O.
pin 79: Memo D 13 :I/O: Pattern Memory interface. Data I/O.
pin 80: Memo D 5 :I/O: Pattern Memory interface. Data I/O.
pin 81: VSS : - : Digital ground.
pin 82: VDD : - : Digital power supply.
pin 83: Memo D 12 :I/O: Pattern Memory interface. Data I/O.
pin 84: Memo D 4 :I/O: Pattern Memory interface. Data I/O.
pin 85: Memo D 11 :I/O: Pattern Memory interface. Data I/O.
pin 86: Memo D 3 :I/O: Pattern Memory interface. Data I/O.
pin 87: Memo D 10 :I/O: Pattern Memory interface. Data I/O.
pin 88: Memo D 2 :I/O: Pattern Memory interface. Data I/O.
pin 89: Memo D 9 :I/O: Pattern Memory interface. Data I/O.
pin 90: Memo D 1 :I/O: Pattern Memory interface. Data I/O.
pin 91: VSS : - : Digital ground.
pin 92: VDD : - : Digital power supply.
pin 93: Memo D 8 :I/O: Pattern Memory interface. Data I/O.
pin 94: Memo D 0 :I/O: Pattern Memory interface. Data I/O.
pin 95: Memo RAHZ_N : IN : Pattern Memory interface. High-impedance.
pin 96: X TEST 2 : IN : For the test. Connect to VDD.
pin 97: X TEST 1 : IN : For the test. Connect to VDD.
pin 98: X TEST 0 : IN : For the test. Connect to VDD.
pin 99: Moni V S IN_N : IN : Monitor interface. Vertical Sync input.
pin100: Moni H S IN_N : IN : Monitor interface. Horizontal Sync input.
pin101: NC : - : Not in use.
pin102: A VDD : - : Analog power supply.
pin103: Moni Red : O : Monitor interface. Analog Red output.
pin104: Moni Green : O : Monitor interface. Analog Green output.
pin105: Moni Blue : O : Monitor interface. Analog Blue output.
pin106: Moni IREF : - : Monitor interface. DAC reference power supply.
pin107: A VSS : - : Analog ground.
pin108: NC : - : Not in use.
pin109: VDD : - : Digital power supply.
pin110: VSS : - : Digital ground.
pin111: Moni D Red 0 : O : Monitor interface. Digital Red output.
pin112: Moni D Red 1 : O : Monitor interface. Digital Red output.
pin113: Moni D Red 2 : O : Monitor interface. Digital Red output.
pin114: Moni D Red 3 : O : Monitor interface. Digital Red output.
pin115: Moni D Red 4 : O : Monitor interface. Digital Red output.
pin116: Moni D Red 5 : O : Monitor interface. Digital Red output.
pin117: VSS : - : Digital ground.
pin118: VDD : - : Digital power supply.
pin119: Moni D Green 0: O : Monitor interface. Digital Green output.
pin120: Moni D Green 1: O : Monitor interface. Digital Green output.
pin121: Moni D Green 2: O : Monitor interface. Digital Green output.
pin122: Moni D Green 3: O : Monitor interface. Digital Green output.
pin123: Moni D Green 4: O : Monitor interface. Digital Green output.
pin124: Moni D Green 5: O : Monitor interface. Digital Green output.
pin125: VSS : - : Digital ground.
pin126: VDD : - : Digital power supply.
pin127: Moni D Blue 0 : O : Monitor interface. Digital Blue output.
pin128: Moni D Blue 1 : O : Monitor interface. Digital Blue output.
pin129: Moni D Blue 2 : O : Monitor interface. Digital Blue output.
pin130: Moni D Blue 3 : O : Monitor interface. Digital Blue output.
pin131: Moni D Blue 4 : O : Monitor interface. Digital Blue output.
pin132: Moni D Blue 5 : O : Monitor interface. Digital Blue output.
pin133: VSS : - : Digital ground.
pin134: Moni FSC : O : Monitor interface. Sub-carrier clock.
pin135: Moni YS_N : O : Monitor interface. YS output.
pin136: Moni V SYNC_N: O : Monitor interface. Vertical Sync output.
pin137: Moni H/C SYN_N : O: Monitor interface. Horizontal/Composite Sync output.
pin138: Moni BLANK_N : O : Monitor interface. Blank output.
pin139: Moni DOT CLK : O : Monitor interface. Dot clock output.
pin140: VDD : - : Digital power supply.
pin141: X IN : IN : Crystal connection.
pin142: X OUT : O : Crystal connection.
pin143: VSS : - : Digital ground.
pin144: NC : - : Not in use.

051-7221-18 TC7SH04FU Single Inverter



051-7509-90 SN74LV123APWR
Dual Retriggerable Monostable Multivibrator

Terminal Description
pin 1 : 1 A_ : Channel 1 input A_. Ref. Table 1.
pin 2 : 1 B : Channel 1 input B. Ref. Table 1.
pin 3 : 1 CLR_ : Channel 1 Clear in. Ref. Table 1.
pin 4 : 1 Q_ : Channel 1 Negative output. Ref. Table 1.
pin 5 : 2 Q : Channel 2 Positive output. Ref. Table 1.
pin 6 : 2 CX : Connect to RX/CX through a capacitor.
pin 7 : 2 RX/CX : Connect to CX through a capacitor, and connect to VCC through a resistor.
pin 8 : GND : Ground.
pin 9 : 2 A_ : Channel 2 input A_. Ref. Table 1.
pin 10: 2 B : Channel 2 input B. Ref. Table 1.
pin 11: 2 CLR_ : Channel 2 Clear in. Ref. Table 1.
pin 12: 2 Q_ : Channel 2 Negative output. Ref. Table 1.
pin 13: 1 Q : Channel 1 Positive output. Ref. Table 1.
pin 14: 1 CX : Connect to RX/CX through a capacitor.
pin 15: 1 RX/CX : Connect to CX through a capacitor, and connect to VCC through a resistor.
pin 16: VCC : Positive supply voltage.

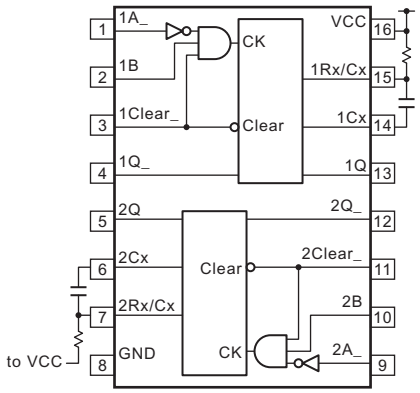


Table 1.

	A_ in	B in	CLR_ in	Q out	Q_ out
Output Enable	D-E	H	H	U-P	D-P
Inhibit	X	L	H	L	H
Inhibit	H	X	H	L	H
Output enable	L	U-E	H	U-P	D-P
Output enable	L	H	U-E	U-P	D-P
Reset	X	X	L	L	H

D-E : Down-edge
D-P : Down-pulse
U-E : Up-edge
U-P : Up-pulse
X : Don't care.

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TerminalDescription

pin 1: A Vref 0 : - : Reference voltage for the internal ADC.
pin 2: A VSS : - : Negative voltage supply for analog section.
pin 3: SYS ACC : O : ACC detect signal output.
pin 4: SUB MUTE : O : Sub-zone audio mute signal output.
pin 5: A Vref 1 : - : Reference voltage for the internal DAC.
pin 6: RDS CLK : IN : Not in use.
pin 7: AV ON : O : The ON command output to the power supply section.
pin 8: FLASH : IN : The signal input for the flash memory control.
pin 9: VDD : - : Positive voltage supply.
pin 10: REG C : - : The capacitor connection.
pin 11: GND : - : Ground.
pin 12: X in : IN : Crystal connection. Main 31.4MHz.
pin 13: X out : O : Crystal connection. Main 31.4MHz.
pin 14: RESET : IN : Reset signal input.
pin 15: XT I : IN : Crystal connection. Sub 32.758kHz.
pin 16: XT O : O : Crystal connection. Sub 32.758kHz.
pin 17: POWER KEY : IN : Power key input.
pin 18: BU 9V DET : IN : Backup 9V detection.
pin 19: BU 6V DET : IN : Backup 6V detection.
pin 20: NU : IN : Not in use.
pin 21: OSD INT : IN : The interrupt signal input for the on screen display.
pin 22: TUN SDA : I/O : I2BUS serial data input/output for the tuner pack.
pin 23: TUN SCL : O : I2BUS serial clock output for the tuner pack.
pin 24: TP REQ : IN : The request signal from the touch panel micro computer.
pin 25: iPod/FLASH O : O : Serial data output to iPod or flash memory.
pin 26: iPod/FLASH IN : IN : Serial data input from iPod or flash memory.
pin 27: TP RST : O : The reset pulse output to the touch panel micro computer.
pin 28: DIMMER : O : PWM output.
pin 29: Motor PLS : IN : Motor Pulse input.
pin 30: NAVI ON : O : The image signal ON command output for the navigation.
pin 31: IE BUS TX : O : IE Bus serial data output.
pin 32: IE BUS RX : IN : IE Bus serial data input.
pin 33: GND : - : Ground.
pin 34: E VDD : - : Positive voltage supply.
pin 35: DSP SDA : I/O : The serial data input/output for the digital signal processor.
pin 36: DSP SCL : O : SCL output to the digital signal processor.
pin 37: Motor 1 F : O : L = Open.
pin 38: Motor 1 R : O : L = Close.
pin 39: Motor 2 F : O : L = Tilt Up.
pin 40: Motor 2 R : O : L = Tilt Down.
pin 41: OFFSET DET : IN : Offset-detection input.
pin 42: Amp Standby : O : The standby signal output to the amplifier.
pin 43: NU : IN : Not in use.
pin 44: NU : IN : Not in use.
pin 45: NU : IN : Not in use.
pin 46: NU : IN : Not in use.
pin 47: NU : IN : Not in use.
pin 48: NU : IN : Not in use.
pin 49: NU : IN : Not in use.
pin 50: NU : IN : Not in use.
pin 51: NU : IN : Not in use.
pin 52: NU : IN : Not in use.
pin 53: IRI : IN : The remote control signal input.
pin 54: NU : IN : Not in use.
pin 55: NU : IN : Not in use.
pin 56: NU : IN : Not in use.
pin 57: NU : IN : Not in use.
pin 58: OSD RST : O : The reset pulse output for the on screen display IC.
pin 59: TP RX : IN : The serial data input from the touch panel micro computer.
pin 60: TP TX : O : The serial data output to the touch panel micro computer.
pin 61: DVD TX : O : The serial data output to the DVD mechanism.
pin 62: DVD RX : IN : The serial data input from the DVD mechanism.
pin 63: W REMCOM : IN : Wired remote controller signal input.
pin 64: BLKO : O : The blanking signal output.
pin 65: VID / RGB : O : L = Video, H = RGB.
pin 66: FL ON : O : The fluorescent light of the LCD ON signal output.
pin 67: BEEP : O : Beep out.
pin 68: OSD RX : IN : Serial data input from on-screen-display IC.
pin 69: OSD TX : O : Serial data output to on-screen-display IC.
pin 70: OSD SCK : O : The clock pulse output to the on screen display IC.
pin 71: OSD CE : O : Chip enable output to on-screen-display IC.
pin 72: OSD INH : O : Inhibit pulse output to on-screen-display IC.
pin 73: Freq SEL : O : Frequency select.
pin 74: OPN/CL SW : IN : Open/Close switch signal input.
pin 75: EJECT SW : IN : Eject switch signal input.
pin 76: CATS DET : IN : CATS or DCP detection input.
pin 77: ROM EN : O : ROM enable signal output. L = OSD OFF.
pin 78: NU : O : Not in use.
pin 79: NU : IN : Not in use.
pin 80: iPod PWR ON : O : iPod power ON signal output.
pin 81: Panel ON : O : LCD panel ON signal output.
pin 82: FAN ON : O : The fan on signal output.
pin 83: TV/OTHER : O : Horizontal sync select. H = TV.
pin 84: FLASH READY : IN : Ready signal input from flash memory.
pin 85: EEP DO : O : The serial data output to the EEP-ROM.
pin 86: CLK OUT : O : SUB-CLOCK-PLUSE output.
pin 87: EEP CK : O : The clock pulse output to the EEP-ROM.
pin 88: EEP CE : O : The chip enable signal output to the EEP-ROM.
pin 89: EEP DI : IN : The serial data input from the EEP-ROM.
pin 90: NU : IN : Not in use.
pin 91: KI 0 : IN : Key scan signal input.
pin 92: KI 1 : IN : Key scan signal input.
pin 93: KI 2 : IN : Key scan signal input.
pin 94: KI 3 : IN : Key scan signal input.
pin 95: KO 0 : O : Key scan signal output.
pin 96: KO 1 : O : Key scan signal output.
pin 97: KO 2 : O : Key scan signal output.
pin 98: KO 3 : O : Key scan signal output.
pin 99: USA/3rd : IN : L = Asia, H = North America.
pin100: Mechanism : IN : L = Without the mechanism.
pin101: NTSC/PAL : IN : NTSC/PAL select signal input. L = NTSC.
pin102: FLASH WR : IN : The write flag input for the flash memory.
pin103: B VSS : - : Ground for the bus interface section.
pin104: B VDD : - : Positive voltage supply for the bus interface section.
pin105: ILL DET : IN : Illumination ON signal input.
pin106: BUS ILL : O : Illumination-ON signal output for Ce-NET.
pin107: ILL ON : O : The illumination ON signal output.
pin108: Blink LED : O : LED Blinking signal output.
pin109: DVD ON 2 : O : DVD ON signal output.
pin110: NU : IN : Not in use.
pin111: DVD RST : O : The reset signal output to the DVD mechanism.

pin112: DSP RST : O : Reset pulse output to the DSP IC.
pin113: DSP INIT : IN : The initial finished signal input from the Radio-Audio-DSP.
pin114: SAMPLE : IN : Not in use.
pin115: NU : - : Not in use.
pin116: AM/FM 8V ON : O : AM/FM 8V ON signal output.
pin117: RDS DATA : IN : RDS serial data input.
pin118: AM/FM 5V ON : O : AM/FM 5V ON signal output.
pin119: iPod DET : IN : H = iPod is connected.
pin120: NU : - : Not in use.
pin121: DAC RESET : O : The reset pulse output to DAC.
pin122: SYS MUTE : O : System muting signal output.
pin123: AMP MUTE : O : Muting signal output to the Audio Power Amplifier.
pin124: NU : - : Not in use.
pin125: Motor PWR : O : L = High Speed.
pin126: Photo Sens : IN : Photo sensor signal input.
pin127: Rear Im Sel 4 : O : Rear image signal selection. Refer Table 2.
pin128: Rear Im Sel 3 : O : Rear image signal selection. Refer Table 2.
pin129: TILT VR : IN : Input-terminal of internal ADC to read the value of tilt-volume.
pin130: FAN TEMP : IN : The input terminal of the internal ADC to detect the temperature.
pin131: Rear Im Sel 2 : O : Rear image signal selection. Refer Table 2.
pin132: Rear Im Sel 1 : O : Rear image signal selection. Refer Table 2.
pin133: Frnt Im Sel 3 : O : Front image signal selection. Refer Table 1.
pin134: Frnt Im Sel 2 : O : Front image signal selection. Refer Table 1.
pin135: Frnt Im Sel 1 : O : Front image signal selection. Refer Table 1.
pin136: SEL 3 : IN : The selection signal input.
pin137: SEL 2 : IN : The selection signal input.
pin138: PKB : IN : The parking brake signal input.
pin139: PHONE INT : IN : The telephone interrupt signal input.
pin140: NU : - : Not in use.
pin141: AMP REM DT : IN : Remote controller wire short detection.
pin142: AMP REM O : O : ON signal output to the amplifier.
pin143: AUTO ANT : O : Auto antenna control signal output.
pin144: ACC IN : IN : ACC ON flag input.

Table 1. Front image signal selection

	Visual	TV	DVD	CCD
Frnt Im Sel 1 (pin 135)	L	H	L	L
Frnt Im Sel 2 (pin 134)	L	L	H	L
Frnt Im Sel 3 (pin 133)	H	H	H	L

Table 2. Rear image signal selection

	Visual	TV	DVD	DVD A/C
Rear Im Sel 1 (pin 132)	L	H	L	L
Rear Im Sel 2 (pin 131)	L	L	H	L
Rear Im Sel 3 (pin 128)	H	H	H	L
Rear Im Sel 4 (pin 127)	L	L	L	H

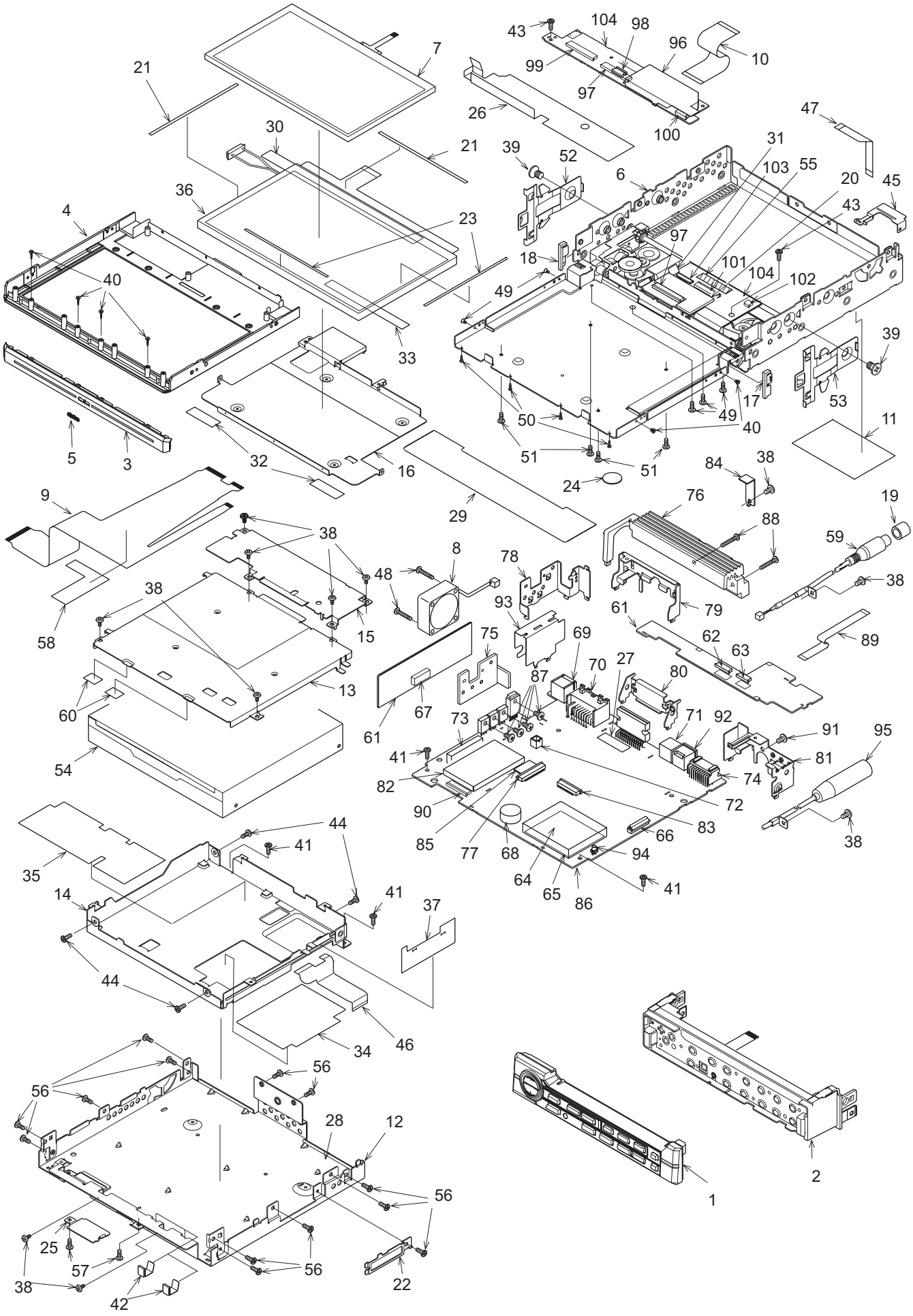
052-7079-00 TC58FVM5B3AFTG65 Lower CMOS Flash Memory

Terminal Description

pin 1: A 15 : IN : Address signal input.
pin 2: A 14 : IN : Address signal input.
pin 3: A 13 : IN : Address signal input.
pin 4: A 12 : IN : Address signal input.
pin 5: A 11 : IN : Address signal input.
pin 6: A 10 : IN : Address signal input.
pin 7: A 9 : IN : Address signal input.
pin 8: A 8 : IN : Address signal input.
pin 9: A 19 : IN : Address signal input.
pin 10: A 20 : IN : Address signal input.
pin 11: WE : IN : Write enable signal input.
pin 12: RESET : IN : Reset signal input.
pin 13: NU : - : Not in use.
pin 14: WP/ACC : IN : The write protection signal input / The acceleration signal input.
pin 15: RY/BY : O : The ready/busy signal output.
pin 16: A 18 : IN : Address signal input.
pin 17: A 17 : IN : Address signal input.
pin 18: A 7 : IN : Address signal input.
pin 19: A 6 : IN : Address signal input.
pin 20: A 5 : IN : Address signal input.
pin 21: A 4 : IN : Address signal input.
pin 22: A 3 : IN : Address signal input.
pin 23: A 2 : IN : Address signal input.
pin 24: A 1 : IN : Address signal input.
pin 25: A 0 : IN : Address signal input.
pin 26: CE : IN : Chip enable signal input.
pin 27: VSS : - : Negative supply voltage.
pin 28: OE : IN : Output enable signal input.
pin 29: D 0 : I/O: Data input/output.
pin 30: D 8 : I/O: Data input/output.
pin 31: D 1 : I/O: Data input/output.
pin 32: D 9 : I/O: Data input/output.
pin 33: D 2 : I/O: Data input/output.
pin 34: D 10 : I/O: Data input/output.
pin 35: D 3 : I/O: Data input/output.
pin 36: D 11 : I/O: Data input/output.
pin 37: VDD : - : Positive supply voltage.
pin 38: D 4 : I/O: Data input/output.
pin 39: D 12 : I/O: Data input/output.
pin 40: D 5 : I/O: Data input/output.
pin 41: D 13 : I/O: Data input/output.
pin 42: D 6 : I/O: Data input/output.
pin 43: D 14 : I/O: Data input/output.
pin 44: D 7 : I/O: Data input/output.
pin 45: D 15/A-1 : I/O: Data input/output. A-1 address input.
pin 46: VSS : - : Negative supply voltage.
pin 47: BYTE/WORD : IN : Byte / Word selection.
pin 48: A 16 : IN : Address signal input.

EXPLODED VIEW : PARTS LIST

Main section



Note)Some parts depend on each model.The model name is specified in the descripion .
(B-A;QC-6823B-A, K-A;PF-QC-6823K-A, K-B;QC-6823K-B , K-C;QC-6823K-C)

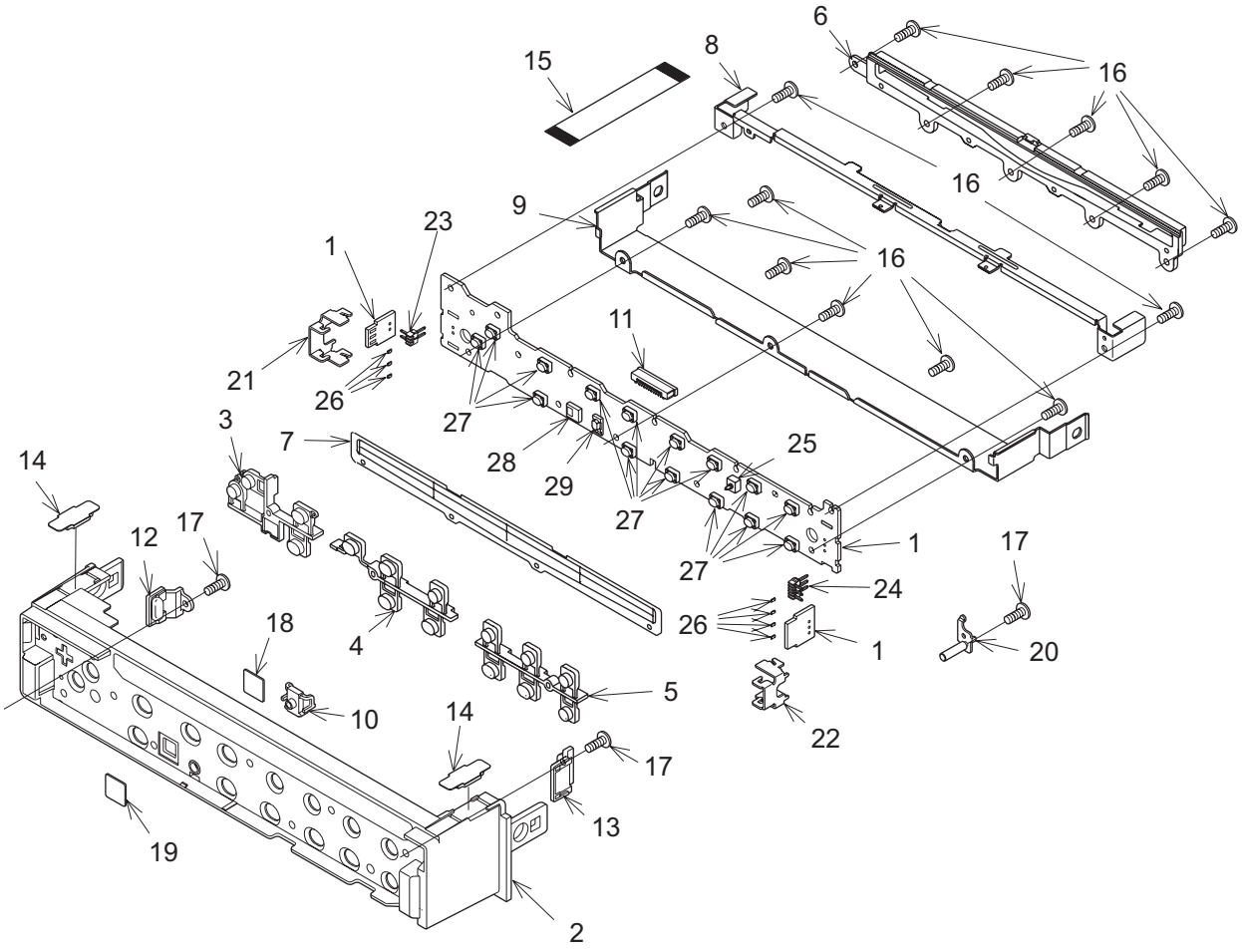
NO.	PART NO.	DESCRIPTION	Q'TY
1	DCP-558-600 DCP-559-800	DCP-ASSY(B-A) DCP-ASSY(K-A,K-B,K-C)	1
2	----------	INNER-ES-SECTION	1
3	335-7790-00	TOP-CVR	1
4	370-6925-00	PANEL-ES	1
5	378-0553-00	BADGE(CLARION)	1
6	948-0692-05	SLIDE-MECH-ASSY	1
7	013-9710-00	TOUCH PANEL	1
8	020-3042-01	DC-MOTOR	1
9	039-2793-00	FPC(MAIN-LCD)	1
10	039-2509-00	FPC(45P)	1
11	286-6827-01 276-0026-01 276-0027-01 276-0028-01	SETPLATE(B-A) SETPLATE(K-A) SETPLATE(K-B) SETPLATE(K-C)	1
12	311-1921-00	LOWER CASE	1
13	331-4174-00	MECH-CVR	1
14	331-4175-00	MECH-BRKT	1
15	331-4176-00	HEAT SINK CVR	1
16	331-3884-01	LCD BRKT	1
17	335-7163-10	SIDE-CVR(L)	1
18	335-7164-10	SIDE-CVR(R)	1
19	345-3799-20	RCA CAP	1
20	345-5470-00	RUBBER PART	1
21	347-6085-00	DOUBLE FACE	2
22	331-4177-00	FPC-CVR(SIDE)	1
23	347-7038-00	SPACER	2
24	347-7260-00	INSULATOR	1
25	331-4173-00	FPC COVER	1
26	347-7262-01	INSULATOR	1
27	347-7739-00	DOUBLE FACE	1
28	347-8029-00	INSULATOR	1
29	347-8028-00	SHADE	1
30	347-7282-00	FILM	1
31	347-7300-00	INSULATOR	1
32	347-7301-00	FILM	2
33	347-7302-00	DOUBLE FACE	1
34	347-8030-00	PROTECT SHEET	1
35	347-8031-00	PROTECT SHEET	1
36	379-0468-00	TFT	1
37	347-8032-00	PROTECT SHEET	1
38	714-2605-8B	MACHINE SCREW(M2.6 x5)	11
39	714-5008-4B	MACHINE SCREW(M5 x8)	2
40	716-0872-61	PAD SCREW(M1.7 x6 BLK)	7
41	716-0878-50	IT SCREW(M2.6 x5)	4
42	331-4231-00	EARTH PLATE	2
43	716-1816-50	IT SCREW(M2 x4)	2
44	731-2608-8A	TAPTIGHT	4
45	331-3946-00	COVER PLATE	1
46	039-2792-00	FPC(DVD-MECH)	1
47	816-2650-00	FLAT WIRE(14P L39)	1
48	780-2612-50	SCREW(M2.6 x12)	2

NO.	PART NO.	DESCRIPTION	Q'TY
49	781-1722-50	PLATE SCREW(M1.7x2.2)	4
50	781-1750-50	SCREW(phi1.7x2.2)	4
51	781-2002-50	PLATE SCREW(M2.0X2)	4
52	750-3137-03	SPRING(R)	1
53	750-3137-02	SPRING(L)	1
54	929-2504-00	DIGITAL-MECH	1
55	347-5867-00	DOUBLE FACE	1
56	714-2604-8B	MACHINE SCREW(M2.6 x4)	13
57	716-1468-01	SCREW (M2 x2.5)	2
58	347-8033-00	INSULATOR	1
59	855-5436-50	RCA PIN CORD	1
60	353-0585-00	SHADE	2
61	----------	SUB PWB	1
62	074-2001-64	OUTLET SOCKET	1
63	074-2001-62	OUTLET SOCKET	1
64	880-2091D	TUNER	1
65	347-7283-00	FILM	1
66	074-1289-80	OUTLET SOCKET(30PDVD)	1
67	074-0881-17	OUTLET SOCKET	1
68	060-0100-50	BUZZER	1
69	074-1194-00	OUTLET SOCKET	1
70	074-1214-00	OUTLET SOCKET	1
71	075-0385-00	JACK	1
72	076-0349-02	PLUG	2
73	076-0353-17	PLUG	1
74	076-0714-20	PLUG	1
75	313-1970-00	HEAT SINK(TR)	1
76	313-1905-00	HEAT SINK(POWER IC)	1
77	074-1205-93	OUTLET SOCKET	1
78	331-4178-00	IC-HOLDER	1
79	331-3850-00	CONECTOR HOLDER	1
80	331-4179-00	IC HOLDER(POWER IC)	1
81	331-4180-00	CONNECTOR HOLD	1
82	331-4182-00	SHIELD CVR	1
83	074-2001-64	OUTLET SOCKET	1
84	331-4311-00	BACK-CVR	1
85	347-7285-00	SPACER(FPC)	1
86	----------	MAIN PWB	1
87	714-2606-8B	MACHINE SCREW(M2.6 x6)	4
88	731-2612-8B	TAPTIGHT	2
89	816-3013-50	FLAT WIRE(14P L65)	1
90	074-2011-70	OUTLET SOCKET(20P)	1
91	714-3005-8B	MACHINE SCREW(M3 x5)	1
92	074-1171-10	OUTLET SOCKET	1
93	331-4181-00	SHIELD CVR(R)	1
94	074-4020-00	OUTLET SOCKET(ANT)	1
95	092-2226-00	ANT-RECEPT	1
96	331-4199-00	SHIELD CVR	1
97	074-2001-95	OUTLET SOCKET(45)	2
98	074-1138-54	OUTLET SOCKET(4P)	1

NO.	PART NO.	DESCRIPTION	Q'TY
99	074-2001-80	OUTLET SOCKET	1
100	076-0568-00	PLUG(2P)	1
101	074-1189-85	OUTLET SOCKET(35P)	1

NO.	PART NO.	DESCRIPTION	Q'TY
102	074-2001-64	OUTLET SOCKET(14P)	1
103	074-2001-70	OUTLET SOCKET(20P)	1
104	----------	LCD PWB	

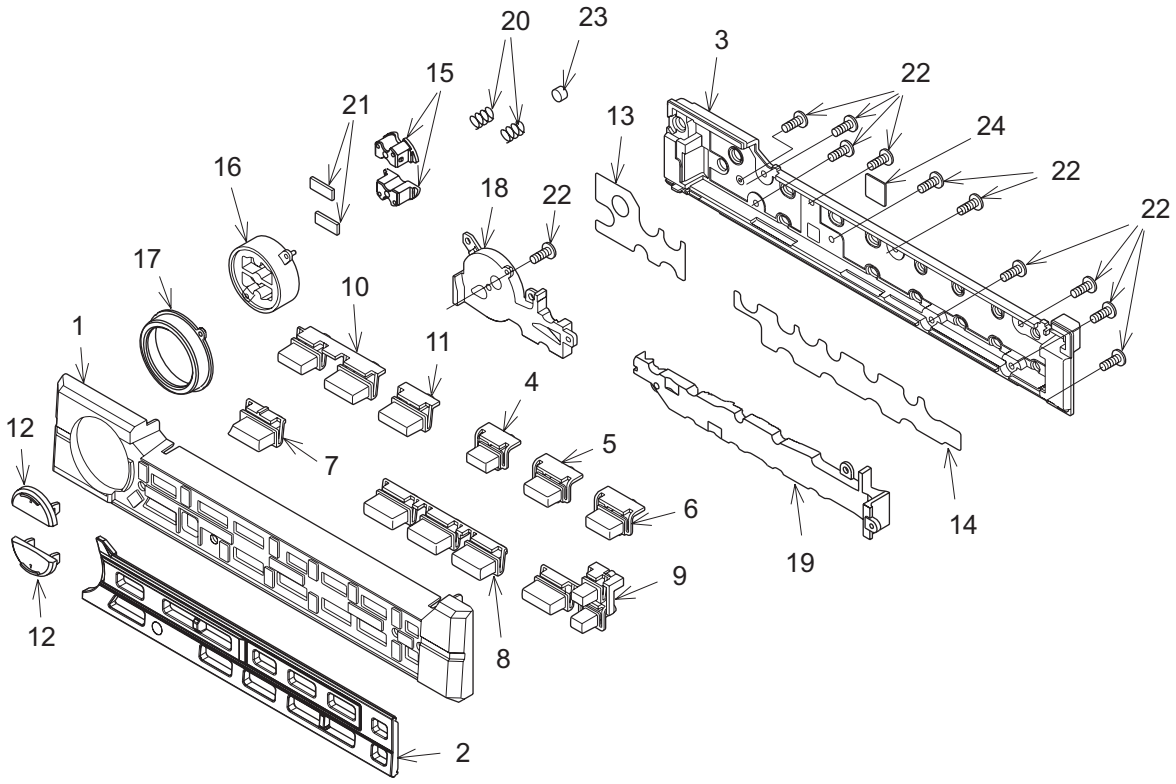
Inner Escutcheon section



NO.	PART NO.	DESCRIPTION	Q'TY
1	----------	SW PWB	1
2	370-6924-00	ESCUTCHEON(INNER)	1
3	382-7862-00	INNER-BUTTON(L)	1
4	382-7863-00	INNER-BUTTON(M)	1
5	382-7864-00	INNER-BUTTON(R)	1
6	335-7788-00	DISC GUIDE	1
7	346-0200-00	LEATHER SHEET	1
8	331-4168-00	DISCGUIDE PLATE	1
9	331-4169-00	ES-PLATE	1
10	382-7865-00	RESET BUTTON	1
11	074-1289-70	OUTLET SOCKET(20P)	1
12	335-7791-00	LED HOLDER(L)	1
13	335-7789-00	LED HOLDER(R)	1
14	347-7854-00	SLIDER	2
15	816-3012-50	FLAT WIRE(20P)	1

NO.	PART NO.	DESCRIPTION	Q'TY
16	716-0872-51	PAD SCREW(M1.7 x5)	13
17	716-0872-21	PAD SCREW(M1.7 x4)	3
18	624-0016-00	MAGNET	1
19	335-7787-00	IR PLATE	1
20	946-0088-00	MAGNET PLATE ASSY	1
21	331-4170-00	LED COVER(L)	1
22	331-4171-00	LED COVER(R)	1
23	076-0708-02	PLUG(2P)	1
24	076-2010-03	PLUG(3P)	1
25	013-7411-51	SWITCH	1
26	001-7097-90	DIODE(CL-194S-W)	7
27	013-6312-50	SWITCH	15
28	060-4017-90	IR-RECIEVER	1
29	013-6513-50	LUMI-SWITCH	1

DCP section



NO.	PART NO.	DESCRIPTION	Q'TY
1	370-6923-00	ESCUTCHEON(F)	1
2	373-1102-00 373-1102-01	DIAL-CVR(B-A) DIAL-CVR(K-A,K-B,K-C)	1
3	335-7781-00	REAR-CVR	1
4	382-7852-00	BUTTON(IPOD)	1
5	382-7853-00	BUTTON(TOP)	1
6	382-7854-00	BUTTON(CONT)	1
7	382-7855-00	BUTTON(SRC)	1
8	382-7856-00	BUTTON(BND/ADJ/M)	1
9	382-7857-00	BUTTON(ISR/OP/EJ)	1
10	382-7858-00	BUTTON(MUTE/DOWN)	1
11	382-7859-00	BUTTON(T-UP)	1
12	382-7860-00	BUTTON(VOL)	2

NO.	PART NO.	DESCRIPTION	Q'TY
13	347-8023-00	REFLECTOR(L)	1
14	347-8024-00	REFLECTOR(R)	1
15	335-7782-00	BUTTON HOLDER(VOL)	2
16	335-7783-00	RING PLATE	1
17	335-7784-00	RING COVER	1
18	335-7785-00	ILLUMI PLATE(L)	1
19	335-7786-00	ILLUMI PLATE(R)	1
20	750-6816-00	SPRING	2
21	347-8022-00	DOUBLE FACE(VOL)	2
22	716-0872-61	PAD SCREW(M1.7x6 BLK)	11
23	354-7593-00	MAGNET	1
24	335-7787-00	IR PLATE	1

ELECTRICAL PARTS LIST

Main PWB(B1) section

Note)Some parts depend on each model.The model name is specified in the descripion .
(B-A;QC-6823B-A, K-A;PF-QC-6823K-A, K-B;QC-6823K-B , K-C;QC-6823K-C)

Note) Several different parts of the same reference number are alternative parts.
One of those parts is used in the set.

REF No.	PART No.	DESCRIPTION
ANT101	092-2226-00	ANT-RECEPT
BL101	880-2091D	AM/FM TUNER
C101	166-2201-50	22pF CH
C102	166-1511-50	150pF CH
C104	168-1032-55	0.01uF K
C105	042-0643-51	16V 100uF
C106	168-2232-55	0.022uF K
C107	166-1011-50	100pF CH
C108	168-1022-55	1000pF K
C109	168-1042-78	16V 0.1uF
C110	168-1042-78	16V 0.1uF
C111	042-0560-84	16V 470uF
C112	043-0540-00	6.3V 10uF
C113	043-0540-00	6.3V 10uF
C114	043-0540-00	6.3V 10uF
C115	043-0540-00	6.3V 10uF
C116	168-1042-78	16V 0.1uF
C117	043-0540-00	6.3V 10uF
C118	043-0540-00	6.3V 10uF
C119	043-0540-00	6.3V 10uF
C120	166-1011-50	100pF CH
C121	166-1011-50	100pF CH
C122	178-1052-78	1uF
C123	042-0592-58	16V 10uF
C126	168-1042-78	16V 0.1uF
C127	042-0592-58	16V 10uF
C128	168-1042-78	16V 0.1uF
C129	042-0595-84	10V 100uF
C130	168-1045-56	0.1uF Z
C131	163-4753-55	35V 4.7uF
C132	168-4712-55	470pF K
C133	168-4712-55	470pF K
C134	168-4712-55	470pF K
C135	168-4712-55	470pF K
C136	168-1042-78	16V 0.1uF
C137	168-1045-56	0.1uF Z
C138	163-1073-15	6.3V 100uF
C139	163-2263-35	16V 22uF
C140	168-4735-56	0.047uF Z
C141	043-0540-00	6.3V 10uF
C142	043-0540-00	6.3V 10uF
C143	166-4701-50	47pF CH
C144	166-4701-50	47pF CH
C145	168-1042-78	16V 0.1uF
C146	166-1011-50	100pF CH
C147	043-0540-00	6.3V 10uF
C148	043-0540-00	6.3V 10uF
C149	043-0540-00	6.3V 10uF
C150	166-1011-50	100pF CH
C153	166-1011-50	100pF CH
C154	178-1052-78	1uF
C155	168-1045-56	0.1uF Z
C156	166-1011-50	100pF CH
C157	168-1042-78	16V 0.1uF
C158	042-0560-84	16V 470uF
C159	168-1045-56	0.1uF Z
C160	042-0619-51	6.3V 56uF
C161	168-1045-56	0.1uF Z
C162	042-0423-20	10V 10uF
C163	168-3335-56	0.033uF Z
C164	168-3322-55	3300pF K
C165	168-3322-55	3300pF K
C166	168-1045-56	0.1uF Z
C167	163-1073-15	6.3V 100uF
C168	168-3322-55	3300pF K
C169	168-3322-55	3300pF K
C170	168-2232-55	0.022uF K
C171	168-4712-55	470pF K
C173	166-1011-50	100pF CH
C174	168-2232-55	0.022uF K
C175	168-2232-55	0.022uF K
C178	168-2232-55	0.022uF K
C181	166-1007-50	10pF CH
C182	166-1007-50	10pF CH
C184	168-1022-55	1000pF K
C185	168-1022-55	1000pF K
C186	168-1042-78	16V 0.1uF
C187	166-1011-50	100pF CH
C188	163-4753-55	35V 4.7uF
C189	168-1042-78	16V 0.1uF
C190	168-1022-55	1000pF K
C191	168-1022-55	1000pF K
C192	163-4753-55	35V 4.7uF
C193	168-1042-78	16V 0.1uF
C194	166-1811-50	180pF CH
C195	168-1045-56	0.1uF Z
C196	163-4753-55	35V 4.7uF
C197	042-0619-51	6.3V 56uF
C198	168-1042-78	16V 0.1uF
C199	168-1042-78	16V 0.1uF
C201	168-1022-55	1000pF K
C202	043-0540-00	6.3V 10uF
C203	168-1022-55	1000pF K
C204	168-1022-55	1000pF K
C205	043-0540-00	6.3V 10uF
C206	043-0540-00	6.3V 10uF
C207	168-1022-55	1000pF K
C208	168-1022-55	1000pF K
C209	043-0540-00	6.3V 10uF
C210	163-2273-25	10V 220uF
C211	043-0540-00	6.3V 10uF
C212	168-1022-55	1000pF K
C213	168-4712-55	470pF K
C214	168-4712-55	470pF K
C215	043-0540-00	6.3V 10uF
C217	168-4712-55	470pF K
C218	168-4712-55	470pF K
C219	043-0540-00	6.3V 10uF
C221	168-4712-55	470pF K
C222	168-4712-55	470pF K
C223	043-0540-00	6.3V 10uF
C225	168-4712-55	470pF K
C226	168-4712-55	470pF K
C227	043-0540-00	6.3V 10uF
C229	168-6812-55	680pF K
C230	168-6812-55	680pF K
C231	043-0540-00	6.3V 10uF
C233	168-6812-55	680pF K
C234	168-6812-55	680pF K
C235	043-0540-00	6.3V 10uF
C237	168-6812-55	680pF K
C238	168-6812-55	680pF K
C239	043-0540-00	6.3V 10uF
C241	168-6812-55	680pF K
C242	168-6812-55	680pF K
C243	042-0592-58	16V 10uF
C244	168-1042-78	16V 0.1uF
C245	042-0592-58	16V 10uF
C246	168-1042-78	16V 0.1uF
C247	043-0541-00	6.3V 22uF
C249	043-0264-56	270pF
C250	166-2701-50	27pF CH
C251	043-0541-00	6.3V 22uF
C253	043-0264-56	270pF
C254	166-2701-50	27pF CH
C256	043-0541-00	6.3V 22uF
C258	043-0264-56	270pF
C259	166-2701-50	27pF CH
C260	043-0541-00	6.3V 22uF
C262	043-0264-56	270pF
C263	166-2701-50	27pF CH
C265	043-0541-00	6.3V 22uF
C266	043-0264-56	270pF
C267	166-2701-50	27pF CH
C268	043-0541-00	6.3V 22uF
C269	043-0264-56	270pF
C270	166-2701-50	27pF CH
C271	168-1032-55	0.01uF K
C272	043-0541-00	6.3V 22uF
C273	043-0264-56	270pF
C274	166-2701-50	27pF CH
C275	043-0541-00	6.3V 22uF
C276	043-0264-56	270pF
C277	166-2701-50	27pF CH
C280	168-1032-55	0.01uF K
C281	042-0592-58	16V 10uF
C282	042-0592-58	16V 10uF
C283	042-0592-58	16V 10uF
C284	042-0592-58	16V 10uF
C285	178-2242-78	0.22uF
C286	178-2242-78	0.22uF
C287	178-2242-78	0.22uF
C288	178-2242-78	0.22uF
C301	168-1042-78	16V 0.1uF
C302	168-1042-78	16V 0.1uF
C304	042-0592-58	16V 10uF
C306	168-1042-78	16V 0.1uF
C307	042-0423-97	16V 10uF
C308	168-1042-78	16V 0.1uF
C310	042-0423-20	10V 10uF
C311	168-1042-78	16V 0.1uF
C312	042-0423-20	10V 10uF
C313	168-1042-78	16V 0.1uF
C314	042-0423-20	10V 10uF
C316	168-1042-78	16V 0.1uF
C317	168-1045-56	0.1uF Z
C318	042-0630-50	16V 100uF
C319	042-0630-50	16V 100uF
C320	168-1042-78	16V 0.1uF
C322	042-0643-51	16V 100uF LOW-ESR
C324	042-0643-51	16V 100uF LOW-ESR
C325	042-0643-51	16V 100uF LOW-ESR
C326	168-1045-56	0.1uF Z
C327	178-1052-78	1uF
C328	178-1052-78	1uF
C329	178-1052-78	1uF
C330	178-1052-78	1uF
C331	178-1052-78	1uF
C332	178-1052-78	1uF
C333	168-1032-55	0.01uF K
C334	178-1052-78	1uF
C335	168-1032-55	0.01uF K
C336	163-4763-35	16V 47uF
C337	163-4763-15	6.3V 47uF
C338	166-3096-50	3pF CJ
C339	163-4763-15	6.3V 47uF
C340	163-4763-15	6.3V 47uF
C341	168-1042-78	16V 0.1uF
C342	163-1073-35	16V 100uF
C343	042-0643-52	6.3V 1000uF
C344	168-4712-55	470pF K

REF No.	PART No.	DESCRIPTION
C345	168-4712-55	470pF K
C401	168-1042-78	16V 0.1uF
C402	043-0540-00	6.3V 10uF
C403	043-0540-00	6.3V 10uF
C404	168-1042-78	16V 0.1uF
C405	168-1042-78	16V 0.1uF
C406	168-1042-78	16V 0.1uF
C407	168-4722-55	4700pF K
C408	166-2211-50	220pF CH
C409	168-1042-78	16V 0.1uF
C410	043-0540-00	6.3V 10uF
C411	168-1042-78	16V 0.1uF
C412	166-1007-50	10pF CH
C413	166-1007-50	10pF CH
C414	166-1011-50	100pF CH
C415	168-1042-78	16V 0.1uF
C416	168-1042-78	16V 0.1uF
C417	168-1042-78	16V 0.1uF
C418	168-1042-78	16V 0.1uF
C421	168-1042-78	16V 0.1uF
C422	168-1042-78	16V 0.1uF
C423	043-0540-00	6.3V 10uF
C424	168-1042-78	16V 0.1uF
C425	168-1042-78	16V 0.1uF
C426	168-1042-78	16V 0.1uF
C427	168-1042-78	16V 0.1uF
C428	043-0540-00	6.3V 10uF
C429	168-1042-78	16V 0.1uF
C430	043-0540-00	6.3V 10uF
C431	168-1042-78	16V 0.1uF
C432	168-1042-78	16V 0.1uF
C433	166-1011-50	100pF CH
C434	168-1042-78	16V 0.1uF
C435	166-1011-50	100pF CH
C436	043-0540-00	6.3V 10uF
C437	176-2221-50	2200pF CH
C438	168-2222-55	2200pF K
C439	168-1042-78	16V 0.1uF
C441	168-1042-78	16V 0.1uF
C450	168-1042-78	16V 0.1uF
C451	168-1042-78	16V 0.1uF
C452	166-5601-50	56pF CH
C454	168-1042-78	16V 0.1uF
C455	168-1042-78	16V 0.1uF
C456	168-1042-78	16V 0.1uF
C457	043-0540-00	6.3V 10uF
C458	168-1042-78	16V 0.1uF
C459	168-1042-78	16V 0.1uF
C460	168-1042-78	16V 0.1uF
C461	168-1042-78	16V 0.1uF
C462	168-1042-78	16V 0.1uF
C463	043-0532-50	10V 10uF
C464	043-0532-50	10V 10uF
C465	168-1042-78	16V 0.1uF
C466	166-1201-50	12pF CH
C467	168-1042-78	16V 0.1uF
C468	178-1052-78	1uF
C469	178-1052-78	1uF
C470	178-1052-78	1uF
C471	178-1052-78	1uF
C472	178-1052-78	1uF
C473	178-1052-78	1uF
C474	178-1052-78	1uF
C475	178-1052-78	1uF
C476	178-1052-78	1uF
C477	168-1042-78	16V 0.1uF
C478	168-1042-78	16V 0.1uF
C479	168-1042-78	16V 0.1uF
C480	168-1042-78	16V 0.1uF
C484	168-1042-78	16V 0.1uF
C485	168-1042-78	16V 0.1uF
C486	168-1042-78	16V 0.1uF
C487	166-5601-50	56pF CH
C488	178-1052-78	1uF

REF No.	PART No.	DESCRIPTION
C490	168-1022-55	1000pF K
C501	043-0540-00	6.3V 10uF
C502	168-1042-78	16V 0.1uF
C503	043-0540-00	6.3V 10uF
C504	168-1042-78	16V 0.1uF
C505	043-0551-90	6.3V 4.7uF M
C506	166-1801-50	18pF CH
C507	166-2201-50	22pF CH
C508	166-1011-50	100pF CH
C509	168-1042-78	16V 0.1uF
C510	168-1042-78	16V 0.1uF
C511	178-1052-78	1uF
C512	166-1011-50	100pF CH
C513	168-1032-55	0.01uF K
C514	168-1032-55	0.01uF K
C515	168-1022-55	1000pF K
C516	178-1052-78	1uF
C517	168-1042-78	16V 0.1uF
C518	168-1022-55	1000pF K
C519	178-1052-78	1uF
C521	042-1596-00	5.5V0.33F
C523	163-4763-15	6.3V 47uF
C605	178-4742-78	0.47uF
C606	042-0592-58	16V 10uF
C607	163-1053-65	50V 1uF
C608	178-1052-78	1uF
C609	042-1545-00	16V2200uF
C610	172-2241-11	0.22uF
C611	168-1022-55	1000pF K
C612	168-1022-55	1000pF K
C613	168-1022-55	1000pF K
C614	168-1022-55	1000pF K
C615	168-1022-55	1000pF K
C616	168-1022-55	1000pF K
C617	168-1022-55	1000pF K
C618	168-1022-55	1000pF K
C619	168-1042-78	16V 0.1uF
C620	042-1545-00	16V2200uF
C621	042-0627-90	16V 100uF
C622	042-0635-51	16V 39uF
C623	168-1042-78	16V 0.1uF
C624	168-1042-78	16V 0.1uF
C625	042-0627-90	16V 100uF
C626	168-1032-55	0.01uF K
C627	168-1032-55	0.01uF K
C628	042-0643-51	16V 100uF
C629	042-0643-56	16V 470uF M
C630	042-0643-56	16V 470uF M
C631	163-4763-35	16V 47uF
C632	042-0416-57	10V 47uF M TAN
C633	168-1042-78	16V 0.1uF
C634	178-3342-78	0.33uF
C635	043-0561-90	0.1uF
C636	163-3363-45	25V 33uF
C637	042-0595-84	10V 100uF
C638	163-2263-35	16V 22uF
C639	168-4732-78	0.047uF K
C640	166-1011-50	100pF CH
C641	166-1011-50	100pF CH
C642	166-1011-50	100pF CH
C643	168-1045-56	0.1uF Z
C644	043-0561-92	0.47uF
C645	178-1052-78	1uF
C646	172-2241-11	0.22uF
CCT403	050-0140-75	1/32W 330 ohm X4j
CCT408	050-0140-75	1/32W 330 ohm X4j
CCT411	050-0140-75	1/32W 330 ohm X4j
CCT412	050-0140-75	1/32W 330 ohm X4j
CCT413	050-0140-75	1/32W 330 ohm X4j
CCT414	050-0140-75	1/32W 330 ohm X4j
CCT415	050-0140-63	1/32W 47k ohm x4J
CCT416	050-0140-63	1/32W 47k ohm x4J
CCT417	050-0140-75	1/32W 330 ohm X4j
CCT418	050-0140-75	1/32W 330 ohm X4j

REF No.	PART No.	DESCRIPTION
CCT419	050-0140-75	1/32W 330 ohm X4j
CCT420	050-0140-75	1/32W 330 ohm X4j
CCT421	050-0140-63	1/32W 47k ohm x4J
CCT422	050-0140-63	1/32W 47k ohm x4J
CCT505	050-0140-52	1/32W 100 ohm x4J
CCT506	050-0140-52	1/32W 100 ohm x4J
CCT507	050-0140-52	1/32W 100 ohm x4J
CCT508	050-0140-52	1/32W 100 ohm x4J
D101	001-0517-90	1SS355
D102	001-0517-90	1SS355
D103	001-0517-90	1SS355
D104	001-0529-21	MA8039-H
D201	001-0529-29	MA8051-M
D202	001-0517-90	1SS355
D203	001-0517-90	1SS355
D204	001-0529-44	MA8082-M
D301	001-0517-90	1SS355
D302	001-0517-90	1SS355
D303	001-0517-90	1SS355
D304	001-1305-90	DAN217U-T106
D305	001-1305-90	DAN217U-T106
D306	001-1305-90	DAN217U-T106
D501	001-0529-43	MA8082-L
D601	001-0592-00	RM4Z
D602	001-0517-90	1SS355
D603	001-0517-90	1SS355
D604	001-0517-90	1SS355
D605	001-0517-90	1SS355
D606	001-0517-90	1SS355
D607	001-2403-90	M1F60
D608	001-2403-90	M1F60
D609	001-2403-90	M1F60
D610	001-2403-90	M1F60
D611	001-0517-90	1SS355
D612	001-2403-90	M1F60
D613	001-0517-90	1SS355
D614	001-0517-90	1SS355
D615	001-0517-90	1SS355
D616	001-0517-90	1SS355
D617	001-0529-26	MA8047-M
D618	001-0504-47	HZS9B3L
D619	001-0529-43	MA8082-L
D620	001-2403-90	M1F60
D621	001-0517-90	1SS355
F602	060-8023-58	3A
IC101	051-0350-93	NJM4558M
IC102	051-0350-93	NJM4558M
IC103	051-1905-91	AN77L05M
IC104	051-6706-10	SAF7730H/N116F
IC105	051-3246-90	BA033FP
IC201	051-6703-08	AK4384VT
IC202	051-6703-08	AK4384VT
IC203	051-3026-90	NJM4580V
IC204	051-3026-90	NJM4580V
IC205	051-3026-90	NJM4580V
IC206	051-3026-90	NJM4580V
IC301	051-7243-48	SN74AHCT1G08DCKR
IC302	051-3317-90	LM1086IS-ADJ
IC303	051-3317-90	LM1086IS-ADJ
IC304	051-3289-00	BA09ST
IC305	051-5306-90	MM1117XF
IC306	051-5306-90	MM1117XF
IC307	051-5336-90	MM1227XFBE
IC308	051-5326-90	TK15420MTL
IC401	051-6456-00	YGV629-VZ
IC402	051-7509-90	SN74LV123APWR
IC403	051-7269-08	SN74AHC2G53HDCTR
IC405	052-7079-00	TC58FVM5B3AFTG65
IC451	051-7221-18	TC7SH04FU
IC452	051-7221-18	TC7SH04FU
IC454	051-5336-90	MM1227XFBE
IC455	051-7275-08	TC7W32FU TE12L
IC456	051-7221-18	TC7SH04FU
IC457	051-5342-90	NJM2524V

REF No.	PART No.	DESCRIPTION
IC458	051-7275-08	TC7W32FU TE12L
IC501	052-7078-01	uPD703276YGJ-512UENA
IC502	051-9402-68	BR93L56F-W
IC503	051-5440-08	S-80931CNMC-G81
IC504	051-3406-90	NJM2078M
IC505	051-5410-38	BU4820G-TR
IC601	051-2057-00	TB2906HQ
IC602	051-3294-90	TA78DS10F
IC603	051-3335-90	AN77L04M
IC604	051-1855-08	TC7W14F
IC605	051-6600-58	HA12187FP
J101	074-4020-00	ANT
J301	074-1289-80	30p
J302	075-0385-00	JACK
J303	074-1205-93	43P
J501	074-2011-70	20p
J502	074-2001-64	14P
J601	074-1214-00	16P
J602	076-0353-17	PLUG 17P
J603	074-1171-10	10P DIN iPOD
J604	074-1194-00	13P Ce-NET
L101	010-2003-04	30uH COIL
L102	010-2279-50	4.7uH
L103	010-2279-50	4.7uH
L104	010-3105-62	1k ohm/100MHz
L105	010-3105-62	1k ohm/100MHz
L106	010-3105-62	1k ohm/100MHz
L107	010-3105-62	1k ohm/100MHz
L108	010-3109-63	1k ohm/100MHz
L109	010-3105-62	1k ohm/100MHz
L110	010-3105-62	1k ohm/100MHz
L111	010-3103-64	1.5k ohm/100MHz
L112	010-3105-62	1k ohm/100MHz
L113	010-3105-62	1k ohm/100MHz
L201	010-2285-56	2.25k ohm/100MHz
L202	010-2285-56	2.25k ohm/100MHz
L203	010-2285-58	1k ohm/100MHz
L204	010-2285-56	2.25k ohm/100MHz
L205	010-2285-56	2.25k ohm/100MHz
L206	010-2285-58	1k ohm/100MHz
L207	010-3103-64	1.5k ohm/100MHz
L208	010-3103-64	1.5k ohm/100MHz
L209	010-3103-64	1.5k ohm/100MHz
L210	010-3103-64	1.5k ohm/100MHz
L211	010-3103-64	1.5k ohm/100MHz
L212	010-3103-64	1.5k ohm/100MHz
L213	010-3103-64	1.5k ohm/100MHz
L214	010-3103-64	1.5k ohm/100MHz
L301	010-3103-50	1500 ohm/100MHz
L302	010-3103-50	1500 ohm/100MHz
L303	010-3103-50	1500 ohm/100MHz
L305	010-3104-50	30 ohm/100MHz
L306	010-3104-50	30 ohm/100MHz
L307	010-3104-50	30 ohm/100MHz
L308	010-3104-50	30 ohm/100MHz
L309	010-3104-50	30 ohm/100MHz
L310	010-3104-50	30 ohm/100MHz
L311	010-3104-50	30 ohm/100MHz
L312	010-3406-66	NLV25 22uH J
L401	010-3104-50	30 ohm/100MHz
L402	010-2279-50	4.7uH
L403	010-3104-50	30 ohm/100MHz
L404	010-2279-50	4.7uH
L405	010-3104-50	30 ohm/100MHz
L406	010-3104-50	30 ohm/100MHz
L407	010-3104-50	30 ohm/100MHz
L501	010-2279-50	4.7uH
L502	010-2279-50	4.7uH
P201	076-0714-20	20P
P301	076-0349-02	2P
P601	076-0349-02	2P
Q102	190-1298-00	2SA1298
Q103	125-2026-95	UN521N

REF No.	PART No.	DESCRIPTION
Q104	190-1298-00	2SA1298
Q105	125-2026-95	UN521N
Q106	125-7005-90	PHK04P02T
Q201	193-1306-00	2SD1306
Q202	193-1306-00	2SD1306
Q203	193-1306-00	2SD1306
Q204	193-1306-00	2SD1306
Q205	193-1306-00	2SD1306
Q206	193-1306-00	2SD1306
Q207	193-1306-00	2SD1306
Q208	193-1306-00	2SD1306
Q209	125-0021-95	DTA143ZUA-T106
Q210	125-0021-95	DTA143ZUA-T106
Q211	125-2026-95	UN521N
Q212	125-2026-95	UN521N
Q213	192-4081-00	2SC4081
Q214	192-4081-00	2SC4081
Q301	190-1736-00	2SA1736
Q302	125-2026-95	UN521N
Q303	190-1736-00	2SA1736
Q304	125-2026-95	UN521N
Q305	190-1736-00	2SA1736
Q306	125-2026-95	UN521N
Q401	125-9025-90	HN1C01FU-TE85N
Q501	125-2026-91	UN5211
Q504	192-4081-00	2SC4081
Q505	192-4081-00	2SC4081
Q506	192-4081-00	2SC4081
Q601	190-1298-00	2SA1298
Q602	125-2026-95	UN521N
Q603	101-1143-00	2SB1143
Q604	190-1736-00	2SA1736
Q605	125-2026-95	UN521N
Q606	125-0021-95	DTA143ZUA-T106
Q607	125-0021-95	DTA143ZUA-T106
Q608	190-1736-00	2SA1736
Q609	125-2026-95	UN521N
Q610	190-1298-00	2SA1298
Q611	125-2026-91	UN5211
Q612	101-1143-00	2SB1143
Q613	190-1736-00	2SA1736
Q614	125-2026-95	UN521N
Q615	190-1736-00	2SA1736
Q616	125-2026-95	UN521N
Q617	192-4081-00	2SC4081
Q618	190-1576-00	2SA1576A
Q619	192-4081-00	2SC4081
Q620	190-1298-00	2SA1298
Q621	125-2026-92	UN5212
Q622	102-3420-50	2SC3420GR,BL
Q623	198-0302-50	2SK302 Y,GR
Q624	190-1576-00	2SA1576A
Q625	125-2026-92	UN5212
Q626	125-2026-92	UN5212
Q627	125-2026-92	UN5212
Q628	125-2026-92	UN5212
Q629	190-1736-00	2SA1736
Q630	125-2026-95	UN521N
Q631	125-2026-92	UN5212
R101	119-1041-15	1/10W 100k ohm
R102	119-1011-15	1/10W 100 ohm
R104	119-0000-05	1/10W 0 ohm JW
R105	119-0000-05	1/10W 0 ohm JW
R106	119-1031-15	1/10W 10k ohm
R107	119-1031-15	1/10W 10k ohm
R108	119-1031-15	1/10W 10k ohm
R109	119-1021-15	1/10W 1k ohm
R110	119-1031-15	1/10W 10k ohm
R111	119-1021-15	1/10W 1k ohm
R112	119-2231-15	1/10W 22k ohm
R113	119-2231-15	1/10W 22k ohm
R114	119-1011-15	1/10W 100 ohm
R115	119-4731-15	1/10W 47k ohm
R116	119-1831-15	1/10W 18k ohm

REF No.	PART No.	DESCRIPTION
R117	119-4731-15	1/10W 47k ohm
R118	119-1831-15	1/10W 18k ohm
R119	119-4731-15	1/10W 47k ohm
R120	119-1831-15	1/10W 18k ohm
R121	119-4731-15	1/10W 47k ohm
R122	119-1831-15	1/10W 18k ohm
R125	119-1031-15	1/10W 10k ohm
R127	119-0000-05	1/10W 0 ohm JW
R128	119-1021-15	1/10W 1k ohm
R129	119-1221-15	1/10W 1.2k ohm
R130	119-1041-15	1/10W 100k ohm
R131	119-1241-15	1/10W 120k ohm
R132	119-1031-15	1/10W 10k ohm
R133	119-2231-15	1/10W 22k ohm
R134	119-1031-15	1/10W 10k ohm
R135	119-2231-15	1/10W 22k ohm
R136	119-2231-15	1/10W 22k ohm
R137	119-1031-15	1/10W 10k ohm
R138	119-2231-15	1/10W 22k ohm
R139	119-1031-15	1/10W 10k ohm
R140	119-1001-15	1/10W 10 ohm
R141	119-1041-15	1/10W 100k ohm
R142	119-8231-15	1/10W 82k ohm
R143	119-8231-15	1/10W 82k ohm
R144	119-1041-15	1/10W 100k ohm
R145	032-0140-89	1/10W 47k ohm F
R146	032-0140-89	1/10W 47k ohm F
R147	032-0140-89	1/10W 47k ohm F
R148	032-0140-89	1/10W 47k ohm F
R149	032-0140-89	1/10W 47k ohm F
R150	032-0140-89	1/10W 47k ohm F
R151	032-0140-89	1/10W 47k ohm F
R152	032-0140-89	1/10W 47k ohm F
R153	119-1041-15	1/10W 100k ohm
R155	119-1011-15	1/10W 100 ohm
R156	119-1011-15	1/10W 100 ohm
R157	119-1011-15	1/10W 100 ohm
R158	119-4721-15	1/10W 4.7k ohm
R159	119-4721-15	1/10W 4.7k ohm
R161	119-1001-15	1/10W 10 ohm
R162	119-1011-15	1/10W 100 ohm
R163	119-4721-15	1/10W 4.7k ohm
R164	119-1011-15	1/10W 100 ohm
R165	119-1011-15	1/10W 100 ohm
R166	119-1031-15	1/10W 10k ohm
R167	119-1031-15	1/10W 10k ohm
R168	119-1031-15	1/10W 10k ohm
R169	119-1011-15	1/10W 100 ohm
R170	119-4721-15	1/10W 4.7k ohm
R171	119-1031-15	1/10W 10k ohm
R172	119-1011-15	1/10W 100 ohm
R173	119-1011-15	1/10W 100 ohm
R174	119-1031-15	1/10W 10k ohm
R175	119-1011-15	1/10W 100 ohm
R176	119-1011-15	1/10W 100 ohm
R177	119-1031-15	1/10W 10k ohm
R178	119-1021-15	1/10W 1k ohm
R201	119-1021-15	1/10W 1k ohm
R202	119-1011-15	1/10W 100 ohm
R203	119-2711-15	1/10W 270 ohm
R204	119-2711-15	1/10W 270 ohm
R205	119-2711-15	1/10W 270 ohm
R206	119-1011-15	1/10W 100 ohm
R207	119-2711-15	1/10W 270 ohm
R208	119-2711-15	1/10W 270 ohm
R209	119-2711-15	1/10W 270 ohm
R210	116-6801-15	1/4W 68 ohm
R211	119-1031-15	1/10W 10k ohm
R212	119-1031-15	1/10W 10k ohm
R213	119-4731-15	1/10W 47k ohm
R214	119-1831-15	1/10W 18k ohm
R215	119-1031-15	1/10W 10k ohm
R216	119-1031-15	1/10W 10k ohm
R217	119-1031-15	1/10W 10k ohm

REF No.	PART No.	DESCRIPTION
R218	119-4731-15	1/10W 47k ohm
R219	119-1831-15	1/10W 18k ohm
R220	119-1031-15	1/10W 10k ohm
R221	119-1031-15	1/10W 10k ohm
R222	119-1031-15	1/10W 10k ohm
R223	119-4731-15	1/10W 47k ohm
R224	119-1831-15	1/10W 18k ohm
R225	119-1031-15	1/10W 10k ohm
R226	119-1031-15	1/10W 10k ohm
R227	119-1031-15	1/10W 10k ohm
R228	119-4731-15	1/10W 47k ohm
R229	119-1831-15	1/10W 18k ohm
R230	119-1031-15	1/10W 10k ohm
R231	119-1031-15	1/10W 10k ohm
R232	119-1031-15	1/10W 10k ohm
R233	119-4731-15	1/10W 47k ohm
R234	119-1231-15	1/10W 12k ohm
R235	119-1031-15	1/10W 10k ohm
R236	119-1031-15	1/10W 10k ohm
R237	119-1031-15	1/10W 10k ohm
R238	119-4731-15	1/10W 47k ohm
R239	119-1231-15	1/10W 12k ohm
R240	119-1031-15	1/10W 10k ohm
R241	119-1031-15	1/10W 10k ohm
R242	119-1031-15	1/10W 10k ohm
R243	119-4731-15	1/10W 47k ohm
R244	119-1231-15	1/10W 12k ohm
R245	119-1031-15	1/10W 10k ohm
R246	119-1031-15	1/10W 10k ohm
R247	119-1031-15	1/10W 10k ohm
R248	119-4731-15	1/10W 47k ohm
R249	119-1231-15	1/10W 12k ohm
R250	119-1031-15	1/10W 10k ohm
R251	119-2231-15	1/10W 22k ohm
R252	119-3311-15	1/10W 330 ohm
R253	119-1021-15	1/10W 1k ohm
R254	119-1041-15	1/10W 100k ohm
R255	119-2231-15	1/10W 22k ohm
R256	119-3311-15	1/10W 330 ohm
R257	119-1021-15	1/10W 1k ohm
R258	119-1041-15	1/10W 100k ohm
R259	119-2231-15	1/10W 22k ohm
R260	119-3311-15	1/10W 330 ohm
R261	119-1021-15	1/10W 1k ohm
R262	119-1041-15	1/10W 100k ohm
R263	119-2231-15	1/10W 22k ohm
R264	119-3311-15	1/10W 330 ohm
R265	119-1021-15	1/10W 1k ohm
R266	119-1041-15	1/10W 100k ohm
R267	119-2231-15	1/10W 22k ohm
R268	119-3311-15	1/10W 330 ohm
R269	119-1021-15	1/10W 1k ohm
R270	119-1041-15	1/10W 100k ohm
R271	119-2231-15	1/10W 22k ohm
R272	119-3311-15	1/10W 330 ohm
R273	119-1021-15	1/10W 1k ohm
R274	119-1041-15	1/10W 100k ohm
R275	119-2231-15	1/10W 22k ohm
R276	119-3311-15	1/10W 330 ohm
R277	119-1021-15	1/10W 1k ohm
R278	119-1041-15	1/10W 100k ohm
R279	119-2231-15	1/10W 22k ohm
R280	119-3311-15	1/10W 330 ohm
R281	119-1021-15	1/10W 1k ohm
R282	119-1041-15	1/10W 100k ohm
R291	119-1021-15	1/10W 1k ohm
R292	119-8221-15	1/10W 8.2k ohm
R293	119-1021-15	1/10W 1k ohm
R294	119-8221-15	1/10W 8.2k ohm
R295	119-1021-15	1/10W 1k ohm
R296	119-2231-15	1/10W 22k ohm
R297	119-1021-15	1/10W 1k ohm
R298	119-2231-15	1/10W 22k ohm
R302	119-2211-15	1/10W 220 ohm
R303	119-1031-15	1/10W 10k ohm
R304	119-3311-15	1/10W 330 ohm
R305	119-3311-15	1/10W 330 ohm
R306	119-1031-15	1/10W 10k ohm
R307	119-3311-15	1/10W 330 ohm
R308	119-3311-15	1/10W 330 ohm
R309	119-3311-15	1/10W 330 ohm
R310	119-3311-15	1/10W 330 ohm
R311	032-0140-66	1/10W 220 ohm F
R312	032-0140-98	1/10W 330 ohm F
R313	032-0140-13	1/10W 33 ohm F
R314	116-2211-15	1/4W 220 ohm
R315	032-0140-68	1/10W 680 ohm F
R316	032-0140-11	1/10W 300 ohm F
R317	119-0000-05	1/10W 0 ohm JW
R318	119-1031-15	1/10W 10k ohm
R319	119-4731-15	1/10W 47k ohm
R320	119-7501-15	1/10W 75 ohm
R321	119-7501-15	1/10W 75 ohm
R322	119-7501-15	1/10W 75 ohm
R323	119-2221-15	1/10W 2.2k ohm
R324	119-4721-15	1/10W 4.7k ohm
R325	119-2221-15	1/10W 2.2k ohm
R326	119-1011-15	1/10W 100 ohm
R327	119-4721-15	1/10W 4.7k ohm
R328	119-1031-15	1/10W 10k ohm
R329	119-1031-15	1/10W 10k ohm
R330	119-3901-15	1/10W 39 ohm
R331	119-7501-15	1/10W 75 ohm
R332	119-4731-15	1/10W 47k ohm
R333	119-1031-15	1/10W 10k ohm
R334	116-1221-15	1/4W 1.2k ohm
R335	116-1221-15	1/4W 1.2k ohm
R401	119-4731-15	1/10W 47k ohm
R402	119-1021-15	1/10W 1k ohm
R403	119-2021-15	1/10W 2k ohm
R404	119-4731-15	1/10W 47k ohm
R406	119-4731-15	1/10W 47k ohm
R407	119-4731-15	1/10W 47k ohm
R414	119-2721-15	1/10W 2.7k ohm
R421	119-1031-15	1/10W 10k ohm
R423	119-1051-15	1/10W 1M ohm
R426	119-2211-15	1/10W 220 ohm
R427	119-3311-15	1/10W 330 ohm
R428	119-2231-15	1/10W 22k ohm
R429	119-2231-15	1/10W 22k ohm
R430	119-2231-15	1/10W 22k ohm
R431	119-2231-15	1/10W 22k ohm
R433	119-3311-15	1/10W 330 ohm
R435	119-4731-15	1/10W 47k ohm
R436	119-4731-15	1/10W 47k ohm
R437	119-3311-15	1/10W 330 ohm
R438	032-0140-72	1/10W 470 ohm F
R439	032-0140-23	1/10W 68 ohm F
R440	119-2211-15	1/10W 220 ohm
R441	119-2211-15	1/10W 220 ohm
R442	119-4731-15	1/10W 47k ohm
R445	032-0140-23	1/10W 68 ohm F
R446	119-4731-15	1/10W 47k ohm
R450	119-1031-15	1/10W 10k ohm
R451	119-1031-15	1/10W 10k ohm
RR456	119-4731-15	1/10W 47k ohm
R463	119-4731-15	1/10W 47k ohm
R464	119-3311-15	1/10W 330 ohm
R465	119-0000-05	1/10W 0 ohm JW
R466	119-1011-15	1/10W 100 ohm
R467	119-1021-15	1/10W 1k ohm
R468	119-2221-15	1/10W 2.2k ohm
R469	119-4731-15	1/10W 47k ohm
R471	119-1011-15	1/10W 100 ohm
R473	032-0140-12	1/10W 75 ohm F
R474	032-0140-12	1/10W 75 ohm F
R475	032-0140-12	1/10W 75 ohm F
R478	119-7501-15	1/10W 75 ohm
R479	119-7501-15	1/10W 75 ohm
R480	119-7501-15	1/10W 75 ohm
R481	119-7501-15	1/10W 75 ohm
R482	119-1011-15	1/10W 100 ohm
R483	119-1011-15	1/10W 100 ohm
R484	119-4731-15	1/10W 47k ohm
R486	119-1011-15	1/10W 100 ohm
R487	119-2201-15	1/10W 22 ohm
R489	119-1011-15	1/10W 100 ohm
R504	119-4721-15	1/10W 4.7k ohm
R505	119-4721-15	1/10W 4.7k ohm
R506	119-4721-15	1/10W 4.7k ohm
R507	119-4721-15	1/10W 4.7k ohm
R508	119-1021-15	1/10W 1k ohm
R509	119-1041-15	1/10W 100k ohm
R510	119-1031-15	1/10W 10k ohm
R511	119-1031-15	1/10W 10k ohm
R512	119-1031-15	1/10W 10k ohm
R513	119-1031-15	1/10W 10k ohm
R514	119-4711-15	1/10W 470 ohm
R515	119-1031-15	1/10W 10k ohm
R516	119-2231-15	1/10W 22k ohm
R518	119-1031-15	1/10W 10k ohm
R519	119-1031-15	1/10W 10k ohm
R520	119-1031-15	1/10W 10k ohm
R521	119-1021-15	1/10W 1k ohm
R522	119-1031-15	1/10W 10k ohm
R523	119-1031-15	1/10W 10k ohm
R524	119-1021-15	1/10W 1k ohm
R525	119-1041-15	1/10W 100k ohm
R529	119-1031-15	1/10W 10k ohm
R530	119-1031-15	1/10W 10k ohm
R531	119-1031-15	1/10W 10k ohm (B-A,K-B)
R532	119-1031-15	1/10W 10k ohm (K-A,C)
R533	119-1031-15	1/10W 10k ohm
R535	119-1031-15	1/10W 10k ohm (K-A,C)
R536	119-1031-15	1/10W 10k ohm (B-A,K-B)
R537	119-1031-15	1/10W 10k ohm
R538	119-1011-15	1/10W 100 ohm
R539	119-1021-15	1/10W 1k ohm
R540	119-1021-15	1/10W 1k ohm
R541	119-1031-15	1/10W 10k ohm
R543	119-4731-15	1/10W 47k ohm
R544	119-2231-15	1/10W 22k ohm
R545	119-1031-15	1/10W 10k ohm
R546	119-1031-15	1/10W 10k ohm
R547	119-1031-15	1/10W 10k ohm
R548	119-1031-15	1/10W 10k ohm
R549	119-1031-15	1/10W 10k ohm
R550	119-1031-15	1/10W 10k ohm
R551	119-1031-15	1/10W 10k ohm
R552	119-1031-15	1/10W 10k ohm
R553	119-1031-15	1/10W 10k ohm
R554	119-4741-15	1/10W 470k ohm
R555	032-0140-03	1/10W 220k ohmF
R556	032-0140-16	1/10W 180k ohm F
R557	119-1041-15	1/10W 100k ohm
R558	119-1041-15	1/10W 100k ohm
R559	119-1031-15	1/10W 10k ohm
R560	119-1041-15	1/10W 100k ohm
R561	119-1031-15	1/10W 10k ohm
R562	119-1041-15	1/10W 100k ohm
R563	032-0140-66	1/10W 220 ohm F
R564	032-0140-67	1/10W 3.3k ohm F
R565	119-1051-15	1/10W 1M ohm
R566	032-0140-03	1/10W 220k ohmF
R567	032-0140-52	1/10W 33k ohm F
R568	032-0140-56	1/10W 12k ohm F
R569	119-1041-15	1/10W 100k ohm
R570	119-1031-15	1/10W 10k ohm

REF No.	PART No.	DESCRIPTION
R571	119-1031-15	1/10W 10k ohm
R572	119-1011-15	1/10W 100 ohm
R573	119-1011-15	1/10W 100 ohm
R605	119-1031-15	1/10W 10k ohm
R606	119-4731-15	1/10W 47k ohm
R608	119-1031-15	1/10W 10k ohm
R609	116-1221-15	1/4W 1.2k ohm
R610	119-1001-15	1/10W 10 ohm
R611	119-1031-15	1/10W 10k ohm
R612	116-1221-15	1/4W 1.2k ohm
R613	116-1221-15	1/4W 1.2k ohm
R614	119-1031-15	1/10W 10k ohm
R615	119-1031-15	1/10W 10k ohm
R616	032-0140-50	1/10W 10k ohm F
R617	119-1031-15	1/10W 10k ohm
R618	116-1521-15	1/4W 1.5k ohm
R619	116-1521-15	1/4W 1.5k ohm
R620	119-1031-15	1/10W 10k ohm
R621	119-5611-15	1/10W 560 ohm
R622	119-2201-15	1/10W 22 ohm
R623	119-1031-15	1/10W 10k ohm
R624	032-0176-06	1/3W 220 ohm J
R625	116-1521-15	1/4W 1.5k ohm
R626	119-1031-15	1/10W 10k ohm
R627	032-0176-06	1/3W 220 ohm J
R628	119-2231-15	1/10W 22k ohm
R629	116-1591-15	1/4W 1.5 ohm

REF No.	PART No.	DESCRIPTION
R630	116-1591-15	1/4W 1.5 ohm
R631	116-1591-15	1/4W 1.5 ohm
R632	116-1591-15	1/4W 1.5 ohm
R633	116-1591-15	1/4W 1.5 ohm
R634	116-1591-15	1/4W 1.5 ohm
R635	119-3321-15	1/10W 3.3k ohm
R636	119-1031-15	1/10W 10k ohm
R637	119-3321-15	1/10W 3.3k ohm
R638	116-1591-15	1/4W 1.5 ohm
R639	032-0176-06	1/3W 220 ohm J
R640	032-0176-06	1/3W 220 ohm J
R641	119-1031-15	1/10W 10k ohm
R642	119-1531-15	1/10W 15k ohm
R643	119-4721-15	1/10W 4.7k ohm
R644	119-4731-15	1/10W 47k ohm
R645	119-1011-15	1/10W 100 ohm
R646	119-1031-15	1/10W 10k ohm
R647	119-4721-15	1/10W 4.7k ohm
R648	032-0140-21	1/10W 549k ohm F
R649	119-4711-15	1/10W 470 ohm
R650	119-1021-15	1/10W 1k ohm
R651	119-1021-15	1/10W 1k ohm
R652	119-1031-15	1/10W 10k ohm
R653	119-1031-15	1/10W 10k ohm
R654	119-1021-15	1/10W 1k ohm
R655	119-1031-15	1/10W 10k ohm
R656	032-0176-06	1/3W 220 ohm J

REF No.	PART No.	DESCRIPTION
R657	032-0176-06	1/3W 220 ohm J
R659	119-3321-15	1/10W 3.3k ohm
R660	116-6801-15	1/4W 68 ohm
R661	119-1001-15	1/10W 10 ohm
R681	119-1031-15	1/10W 10k ohm
R682	119-1031-15	1/10W 10k ohm
R683	119-1031-15	1/10W 10k ohm
R684	119-1031-15	1/10W 10k ohm
R685	119-2231-15	1/10W 22k ohm
R686	119-2231-15	1/10W 22k ohm
R687	119-2231-15	1/10W 22k ohm
R688	119-2231-15	1/10W 22k ohm
SUP101	060-0122-10	DSP-201M-S00B
TH501	002-0315-00	TN10-3U153JT
TM301	073-0768-90	TERMINAL
TM601	073-0768-90	TERMINAL
VR401	012-6009-53	2.2k ohm B VR
VR451	012-6009-53	2.2k ohm B VR
X101	061-3537-90	41.6MHz
X401	061-3554-90	9.5979MHz
X501	060-1541-90	3.14MHz
X502	061-3522-90	32.768KHz
X503	060-0100-51	BUZZER
PWB	039-2867-01	PWB(WITHOUT COMPONENT)

Sub PWB(B2) section

REF No.	PART No.	DESCRIPTION
C501	163-1073-35	16V 100uF
C502	043-0561-90	0.1uF
C503	043-0561-90	0.1uF
C551	042-0643-50	35V 22uF
C552	042-0630-50	16V 100uF
C553	042-0643-57	16V 220uF
C554	042-0630-50	16V 100uF
C555	042-0643-50	35V 22uF
C556	168-1042-78	16V 0.1uF
C557	042-0643-51	16V 100uF
C558	042-0560-58	16V 10uF
C559	042-0643-55	35V 4.7uF
C560	168-1022-55	1000pF K
C561	168-2222-55	2200pF K
C562	042-0643-50	35V 22uF
C563	042-0630-50	16V 100uF
C564	042-0630-50	16V 100uF
C565	042-0643-50	35V 22uF
C566	042-0643-50	35V 22uF
C567	042-0643-50	35V 22uF
C575	043-0510-51	25V 10uF
C576	042-0643-56	16V 470uF M
C577	178-1052-78	1uF
C578	168-1042-78	16V 0.1uF
C579	168-1042-78	16V 0.1uF
C580	168-4732-78	0.047uF K
C581	166-1021-50	1000pF CH
C582	168-1042-78	16V 0.1uF
C583	168-1022-55	1000pF K
C584	166-1511-50	150pF CH
C585	168-1042-78	16V 0.1uF
C586	168-2232-55	0.022uF K
C587	042-0643-52	6.3V 1000uF

REF No.	PART No.	DESCRIPTION
C588	178-1052-78	1uF
C589	178-1052-78	1uF
C590	042-0643-52	6.3V 1000uF
C591	042-0643-51	16V 100uF
D501	001-0529-32	MA8056-M
D502	001-0529-42	MA8075-H
D552	001-0516-90	MA111
D553	001-0516-90	MA111
D554	001-2628-90	RB160M-40
D555	001-0516-90	MA111
D556	001-0516-90	MA111
D575	001-0608-90	D1FS4
D576	001-0507-90	DAP202K
IC501	051-1014-00	TA7291P
IC502	051-1014-00	TA7291P
IC552	051-3913-90	NJM2368E
IC576	051-3924-90	MD1424R
J502	074-2001-62	12P
J503	074-2001-64	14P
J551	074-0881-17	17P
L553	010-3057-90	100uH
L554	010-3057-90	100uH
L555	010-3406-74	NLV25 100uH J
L556	010-3406-74	NLV25 100uH J
L557	010-3406-74	NLV25 100uH J
L558	010-3406-74	NLV25 100uH J
L576	010-3404-53	33uH
L579	010-3041-90	10uH
Q501	125-2032-92	RN1302
Q552	192-2873-00	2SC2873
Q575	125-2032-93	RN1303
Q576	190-1586-00	2SA1586 O,Y,G
Q577	125-2032-93	RN1303

REF No.	PART No.	DESCRIPTION
R501	119-4711-15	1/10W 470 ohm
R502	119-0000-05	1/10W 0 ohm JW
R555	119-1001-15	1/10W 10 ohm
R556	119-1841-15	1/10W 180k ohm
R557	119-6841-15	1/10W 680k ohm
R558	119-3931-15	1/10W 39k ohm
R559	119-3311-15	1/10W 330 ohm
R560	119-6841-15	1/10W 680k ohm
R561	119-2231-15	1/10W 22k ohm
R562	119-2221-15	1/10W 2.2k ohm
R575	119-1031-15	1/10W 10k ohm
R576	119-1031-15	1/10W 10k ohm
R577	119-1031-15	1/10W 10k ohm
R578	119-5631-15	1/10W 56k ohm
R579	119-1051-15	1/10W 1M ohm
R580	119-1041-15	1/10W 100k ohm
R581	119-1031-15	1/10W 10k ohm
R582	119-3301-15	1/10W 33 ohm
R583	119-1001-15	1/10W 10 ohm
R584	032-0140-53	1/10W 2.2k ohm F
R585	032-0164-50	0.1ohm F
R586	032-0164-50	0.1ohm F
R587	119-1031-15	1/10W 10k ohm
R588	032-0140-56	1/10W 12k ohm F
R589	032-0164-50	0.1ohm F
R590	032-0164-50	0.1ohm F
R591	032-0164-50	0.1ohm F
R592	032-0164-50	0.1ohm F
R598	119-0000-05	1/10W 0 ohm JW
T551	007-1168-90	TR11-A-S
VR551	012-6009-52	1k ohm B VR
PWB	039-2862-00	PWB(WITHOUT COMPONENT)

LCD PWB(B3) section

REF No.	PART No.	DESCRIPTION
C701	043-0561-90	0.1uF
C703	168-1042-78	16V 0.1uF
C704	042-0416-57	10V 47uF M TAN
C705	168-1042-78	16V 0.1uF
C706	042-0416-57	10V 47uF M TAN
C707	168-4712-55	470pF K
C708	168-1042-78	16V 0.1uF
C709	168-1042-78	16V 0.1uF
C710	168-1022-55	1000pF K
C711	168-1022-55	1000pF K
C712	168-1022-55	1000pF K
C713	168-1022-55	1000pF K
C714	168-1045-56	0.1uF Z
C715	168-1042-78	16V 0.1uF
C716	042-0416-57	10V 47uF M TAN
C801	178-1055-79	1uF
C802	178-1055-79	1uF
C803	178-1055-79	1uF
C804	178-1055-79	1uF
C805	168-1045-56	0.1uF Z
C806	168-1045-56	0.1uF Z
C807	042-0636-50	6.3V 100uF
C808	178-1055-79	1uF
C809	166-5601-50	56pF CH
C810	168-2232-55	0.022uF K
C811	178-1055-79	1uF
C812	178-1055-79	1uF
C813	042-0423-20	10V 10uF
C814	042-0397-55	6.3V 3.3uF TAN
C815	168-1032-55	0.01uF K
C816	168-1032-55	0.01uF K
C817	168-1032-55	0.01uF K
C818	168-1032-55	0.01uF K
C819	168-1032-55	0.01uF K
C820	168-1032-55	0.01uF K
C821	042-0416-57	10V 47uF M TAN
C822	043-0504-50	10V 4.7uF
C823	166-1201-50	12pF CH
C824	166-8211-50	820pF
C825	166-2201-50	22pF CH
C826	166-6811-50	680pF
C827	166-5601-50	56pF CH
C828	168-1032-55	0.01uF K
C829	168-1045-56	0.1uF Z
C830	168-1032-55	0.01uF K
C831	168-4732-78	0.047uF K
C832	168-1032-55	0.01uF K
C833	168-1032-55	0.01uF K
C834	168-1032-55	0.01uF K
C835	166-8201-50	82pF CH
C836	168-1032-55	0.01uF K
C837	168-1052-78	1uF
C838	168-1032-55	0.01uF K
C839	168-1032-55	0.01uF K
C840	178-1055-79	1uF
C841	168-1052-78	1uF
C842	168-1052-78	1uF
C843	168-1032-55	0.01uF K
C844	042-0416-55	16V 15uF M TAN
C845	168-1052-78	1uF
C846	042-0397-53	25V 0.47uF TAN
C847	168-1032-55	0.01uF K
C848	168-1045-56	0.1uF Z
C850	166-2096-50	2pF CK
C851	168-1045-56	0.1uF Z
C852	042-0416-54	16V 10uF M TAN
C853	168-1032-55	0.01uF K
C854	042-0416-54	16V 10uF M TAN
C855	178-1055-79	1uF
C856	178-1055-79	1uF
C857	168-1032-55	0.01uF K
C858	042-0416-54	16V 10uF M TAN

REF No.	PART No.	DESCRIPTION
C859	178-1055-79	1uF
C860	166-1021-50	1000pF CH
C901	168-1032-55	0.01uF K
C902	042-0416-54	16V 10uF M TAN
C903	168-1045-56	0.1uF Z
C904	166-1007-50	10pF CH
C905	166-4711-50	470pF CH
C906	168-1045-56	0.1uF Z
C907	168-1045-56	0.1uF Z
C908	168-1045-56	0.1uF Z
C909	168-6832-78	0.068uF K
C910	168-1032-55	0.01uF K
C911	168-1032-55	0.01uF K
C912	168-1032-55	0.01uF K
C913	168-1032-55	0.01uF K
C914	168-1032-55	0.01uF K
C915	168-1045-56	0.1uF Z
C916	042-0416-57	10V 47uF M TAN
C917	168-1032-55	0.01uF K
C918	168-1032-55	0.01uF K
C919	168-1032-55	0.01uF K
C920	166-1801-50	18pF CH
C921	168-1032-55	0.01uF K
C922	168-1032-55	0.01uF K
C923	168-1045-56	0.1uF Z
C924	168-1045-56	0.1uF Z
C925	042-0416-57	10V 47uF M TAN
C926	042-0416-57	10V 47uF M TAN
C927	168-2242-58	0.22uF B
C928	168-2242-58	0.22uF B
C929	168-1045-56	0.1uF Z
C930	168-1045-56	0.1uF Z
C931	042-0416-57	10V 47uF M TAN
C932	042-0416-57	10V 47uF M TAN
C933	178-2255-79	2.2uF
C934	168-1032-55	0.01uF K
C935	166-1811-50	180pF CH
C936	168-4722-55	4700pF K
C937	168-2232-55	0.022uF K
C938	178-2255-79	2.2uF
C939	168-2232-55	0.022uF K
C940	168-1052-78	1uF
C941	168-1045-56	0.1uF Z
C942	168-1045-56	0.1uF Z
C943	168-1042-78	16V 0.1uF
C944	166-6811-50	680pF
C945	168-1045-56	0.1uF Z
C946	168-1045-56	0.1uF Z
C947	168-1022-55	1000pF K
C948	166-1011-50	100pF CH
C949	166-4701-50	47pF CH
C950	166-2096-50	2pF CK
C951	168-1045-56	0.1uF Z
C952	043-0510-50	16V 22uF
C953	043-0549-50	3KV10PF
C954	168-1032-55	0.01uF K
C958	168-1022-55	1000pF K
960	168-1032-55	0.01uF K
C961	042-0636-51	16V 47uF
C962	168-1045-56	0.1uF Z
C963	042-0636-51	16V 47uF
C964	168-1045-56	0.1uF Z
C966	042-0416-57	10V 47uF M TAN
C991	168-4712-55	470pF K
C992	168-4712-55	470pF K
C993	168-4712-55	470pF K
C994	168-4712-55	470pF K
CCT701	050-0140-58	1/32W 470 ohm x4J
CCT703	050-0140-57	1/32W 10k ohm x4J
CCT704	050-0140-63	1/32W 47k ohm x4J
CCT706	050-0140-54	1/32W 1k ohm x4J
CCT707	050-0140-67	1/32W 220 ohm x4J

REF No.	PART No.	DESCRIPTION
CCT801	050-0140-58	1/32W 470 ohm x4J
CCT802	050-0140-52	1/32W 100 ohm x4J
CCT901	050-0140-58	1/32W 470 ohm x4J
CCT902	050-0140-52	1/32W 100 ohm x4J
CCT903	050-0140-52	1/32W 100 ohm x4J
D701	001-1305-90	DAN217U-T106
D702	001-1305-90	DAN217U-T106
D703	001-1305-90	DAN217U-T106
D704	001-1305-90	DAN217U-T106
D941	001-4301-29	HZU 5.1B2
D943	001-0516-90	MA111
D944	001-4301-29	HZU 5.1B2
D945	001-3218-90	1SV231
D961	001-0529-29	MA8051-M
D964	001-1315-90	NSM123TL-E
D965	001-1315-90	NSM123TL-E
F701	060-8058-90	ERBSEOR75U
FIL901	060-3118-50	FK2125T25
IC701	052-7066-01	M30102M2-561FP
IC801	051-7256-08	SN74AHCT1G32DCKR
IC802	051-5313-10	IR3Y29BM
IC803	051-7269-08	SN74AHC2G53HDCTR
IC804	051-1292-90	NJM4565M-D
IC901	051-7243-48	SN74AHCT1G08DCKR
IC902	051-1964-18	TC7S14FU
IC903	051-1964-18	TC7S14FU
IC904	051-6443-00	TC200G02AF-0104Z
IC941	051-3025-90	NJM2107F
IC942	125-9023-90	TPCF8402TE85L,F
IC943	125-9023-90	TPCF8402TE85L,F
IC944	051-3925-90	OZ9910ISN-T2
J701	074-1189-85	35P
J702	074-2001-70	20P
J703	074-2001-64	14P
J801	074-2001-95	45P
J901	074-2001-95	45P
J902	074-1138-54	4P
J903	074-2001-80	30P
L701	010-2279-50	4.7uH
L801	010-3407-66	NLV32 22uH J
L802	010-3407-71	NLV32 56uH J
L803	010-3200-90	R-12T621B
L901	010-3407-68	NLV32 33uH J
L902	010-3407-62	NLV32 10uH J
L903	010-3407-62	NLV32 10uH J
L904	010-3407-62	NLV32 10uH J
L941	010-3406-59	NLV25 5.6uH J
L961	010-3059-90	Choke
P701	076-0478-52	2P
P961	076-0568-00	2P
Q701	125-2026-94	UN521M
Q702	125-2026-94	UN521M
Q703	125-0020-94	UN511M
Q704	125-0020-94	UN511M
Q801	192-3326-00	2SC3326
Q802	125-2026-91	UN5211
Q803	192-4116-00	2SC4116
Q804	125-2026-91	UN5211
Q805	125-0020-91	UN5111
Q806	125-2026-91	UN5211
Q807	190-1738-00	2SA1738
Q808	192-3265-00	2SC3265 O,Y
Q809	190-1298-00	2SA1298
Q810	190-1298-00	2SA1298
Q811	192-3265-00	2SC3265 O,Y
Q901	125-2026-90	UN521L
Q902	125-2026-90	UN521L
Q903	125-2026-91	UN5211
Q941	192-4118-00	2SC4118
Q942	125-2032-92	RN1302
Q961	125-0025-92	RN2302
R701	119-2231-15	1/10W 22k ohm

REF No.	PART No.	DESCRIPTION
R702	119-2231-15	1/10W 22k ohm
R705	119-4711-15	1/10W 470 ohm
R706	119-4711-15	1/10W 470 ohm
R707	119-6811-15	1/10W 680 ohm
R709	119-1051-15	1/10W 1M ohm
R710	119-3321-15	1/10W 3.3k ohm
R711	119-4731-15	1/10W 47k ohm
R712	119-2211-15	1/10W 220 ohm
R713	119-2211-15	1/10W 220 ohm
R801	119-4721-15	1/10W 4.7k ohm
R802	119-1021-15	1/10W 1k ohm
R803	119-4711-15	1/10W 470 ohm
R804	119-2211-15	1/10W 220 ohm
R805	119-1021-15	1/10W 1k ohm
R806	032-0140-99	1/10W 39k ohm F
R807	119-2221-15	1/10W 2.2k ohm
R808	032-0140-54	1/10W 22k ohm F
R809	032-0140-89	1/10W 47k ohm F
R810	119-2231-15	1/10W 22k ohm
R811	119-3341-15	1/10W 330k ohm
R812	119-5621-15	1/10W 5.6k ohm
R813	119-2231-15	1/10W 22k ohm
R814	119-2231-15	1/10W 22k ohm
R815	119-2431-15	1/10W 24k ohm
R816	119-2731-15	1/10W 27k ohm
R817	032-0140-80	1/10W 18k ohm F
R818	119-3341-15	1/10W 330k ohm
R819	119-1521-15	1/10W 1.5k ohm
R820	119-5611-15	1/10W 560 ohm
R821	119-5641-15	1/10W 560k ohm
R822	119-1021-15	1/10W 1k ohm
R823	119-3351-15	1/10W 3.3M ohm
R824	119-3931-15	1/10W 39k ohm
R825	119-2731-15	1/10W 27k ohm
R826	119-3931-15	1/10W 39k ohm
R827	119-2731-15	1/10W 27k ohm
R828	119-3931-15	1/10W 39k ohm
R829	119-2231-15	1/10W 22k ohm
R830	119-1051-15	1/10W 1M ohm
R831	119-6821-15	1/10W 6.8k ohm
R832	119-3311-15	1/10W 330 ohm
R833	119-4731-15	1/10W 47k ohm
R834	119-1831-15	1/10W 18k ohm
R835	119-5621-15	1/10W 5.6k ohm

REF No.	PART No.	DESCRIPTION
R836	119-1521-15	1/10W 1.5k ohm
R837	032-0140-89	1/10W 47k ohm F
R838	032-0140-99	1/10W 39k ohm F
R839	032-0140-89	1/10W 47k ohm F
R840	032-0140-52	1/10W 33k ohm F
R842	119-6811-15	1/10W 680 ohm
R843	119-1011-15	1/10W 100 ohm
R844	119-5621-15	1/10W 5.6k ohm
R845	119-2221-15	1/10W 2.2k ohm
R846	119-1011-15	1/10W 100 ohm
R847	119-1011-15	1/10W 100 ohm
R848	119-8221-15	1/10W 8.2k ohm
R849	032-0140-89	1/10W 47k ohm F
R850	119-1031-15	1/10W 10k ohm
R853	032-0140-17	1/10W 270k ohm F
R854	119-0000-05	1/10W 0 ohm JW
R855	119-0000-05	1/10W 0 ohm JW
R856	032-0140-89	1/10W 47k ohm F
R859	119-6821-15	1/10W 6.8k ohm
R861	119-5621-15	1/10W 5.6k ohm
R862	119-5621-15	1/10W 5.6k ohm
R863	119-6821-15	1/10W 6.8k ohm
R864	119-1831-15	1/10W 18k ohm
R865	119-1011-15	1/10W 100 ohm
R866	119-1231-15	1/10W 12k ohm
R867	119-4321-15	1/10W 4.3k ohm
R868	119-0000-05	1/10W 0 ohm JW
R869	119-0000-05	1/10W 0 ohm JW
R901	119-1021-15	1/10W 1k ohm
R902	032-0140-75	1/10W1.5k ohm F
R903	119-0000-05	1/10W 0 ohm JW
R904	119-1011-15	1/10W 100 ohm
R905	119-6811-15	1/10W 680 ohm
R906	119-1011-15	1/10W 100 ohm
R907	119-1011-15	1/10W 100 ohm
R908	119-1021-15	1/10W 1k ohm
R909	119-1021-15	1/10W 1k ohm
R910	119-1021-15	1/10W 1k ohm
R911	119-1031-15	1/10W 10k ohm
R912	119-0000-05	1/10W 0 ohm JW
R913	119-0000-05	1/10W 0 ohm JW
R916	119-3301-15	1/10W 33 ohm
R917	119-4711-15	1/10W 470 ohm
R941	119-4721-15	1/10W 4.7k ohm

REF No.	PART No.	DESCRIPTION
R942	032-0140-55	1/10W 4.7k ohm F
R943	032-0140-79	1/10W 2.7k ohm F
R944	119-4731-15	1/10W 47k ohm
R945	119-6831-15	1/10W 68k ohm
R946	119-1531-15	1/10W 15k ohm
R947	119-1051-15	1/10W 1M ohm
R948	119-6831-15	1/10W 68k ohm
R949	119-3621-15	1/10W 3.6k ohm
R950	119-2031-15	1/10W 20k ohm
R951	119-1531-15	1/10W 15k ohm
R952	119-1821-15	1/10W 1.8k ohm
R953	119-3321-15	1/10W 3.3k ohm
R954	119-1011-15	1/10W 100 ohm
R955	119-3311-15	1/10W 330 ohm
R956	119-3931-15	1/10W 39k ohm
R957	119-1031-15	1/10W 10k ohm
R961	119-1021-15	1/10W 1k ohm
R964	119-1021-15	1/10W 1k ohm
R965	119-1021-15	1/10W 1k ohm
R966	119-1021-15	1/10W 1k ohm
R967	119-1021-15	1/10W 1k ohm
R982	116-6811-15	1/4W 680 ohm
R983	119-8231-15	1/10W 82k ohm
R984	119-1031-15	1/10W 10k ohm
R985	119-3351-15	1/10W 3.3M ohm
R986	119-1041-15	1/10W 100k ohm
R987	119-1051-15	1/10W 1M ohm
R988	032-0140-90	1/10W 560 ohm F
R992	119-6841-15	1/10W 680k ohm
T901	007-1165-00	CIUH7D45 TRANS
VR801	012-6009-58	33k ohm B VR
VR802	012-6009-58	33k ohm B VR
VR803	012-6009-58	33k ohm B VR
VR804	012-6009-57	22k ohm B VR
VR805	012-6009-58	33k ohm B VR
VR806	012-6009-57	22k ohm B VR
VR807	012-6009-53	2.2k ohm B VR
VR941	012-6009-56	10k ohm B VR
X701	060-1531-90	CSTCR4M91G53-RO
X801	061-3520-95	3.57945MHz
X802	061-3524-90	4.433618MHz
PWB	039-2863-00	PWB(WITHOUT COMPONENT)

Switch PWB(B4) section

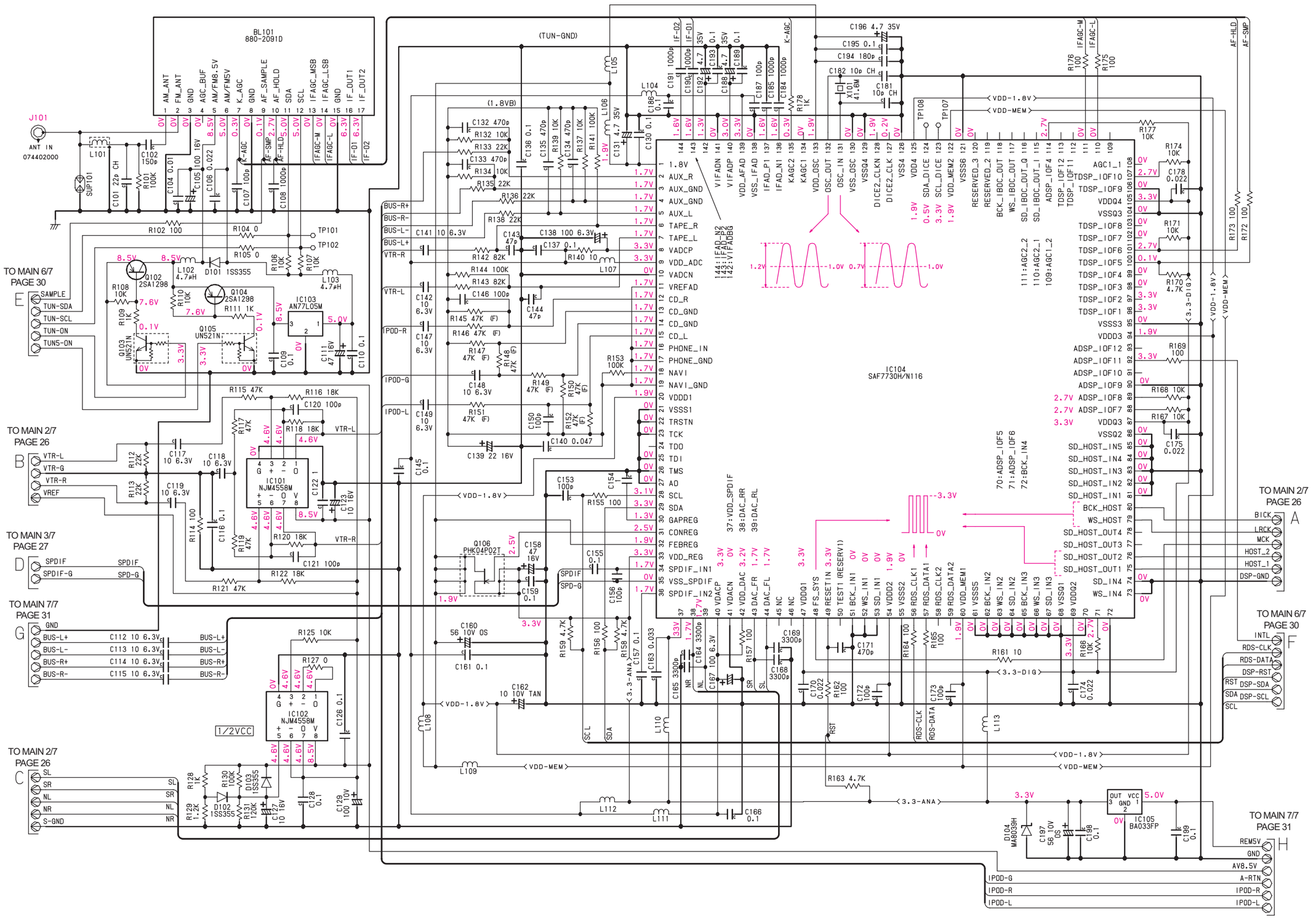
REF No.	PART No.	DESCRIPTION
C1101	178-1055-79	1uF
D1101	001-7097-90	CL194S-WM-D-T
D1102	001-7097-90	CL194S-WM-D-T
D1103	001-7097-90	CL194S-WM-D-T
D1106	001-7097-90	CL194S-WM-D-T
D1107	001-7097-90	CL194S-WM-D-T
D1108	001-7097-90	CL194S-WM-D-T
D1111	001-7097-90	CL194S-WM-D-T
IR1101	060-4017-90	IR RECEIVER
J1101	074-1289-70	20P
P1101	076-2010-03	3P
P1103	076-0708-02	2P
Q1101	125-2017-97	RN1427
Q1102	125-2032-96	RN1306
R1101	119-6811-15	1/10W 680 ohm

REF No.	PART No.	DESCRIPTION
R1102	119-6811-15	1/10W 680 ohm
R1103	119-4711-15	1/10W 470 ohm
R1106	119-3311-15	1/10W 330 ohm
R1107	119-8211-15	1/10W 820 ohm
R1108	119-8211-15	1/10W 820 ohm
R1109	119-4711-15	1/10W 470 ohm
R1112	119-3311-15	1/10W 330 ohm
R1113	119-3311-15	1/10W 330 ohm
R1114	119-1021-15	1/10W 1k ohm
R1115	119-4701-15	1/10W 47 ohm
R1116	119-2221-15	1/10W 2.2k ohm
S1101	013-7411-51	SWITCH
S1102	013-6513-50	LS9J2M-1UR
S1103	013-6312-50	SKRP-ABE-010
S1104	013-6312-50	SKRP-ABE-010

REF No.	PART No.	DESCRIPTION
S1105	013-6312-50	SKRP-ABE-010
S1106	013-6312-50	SKRP-ABE-010
S1107	013-6312-50	SKRP-ABE-010
S1108	013-6312-50	SKRP-ABE-010
S1109	013-6312-50	SKRP-ABE-010
S1110	013-6312-50	SKRP-ABE-010
S1111	013-6312-50	SKRP-ABE-010
S1112	013-6312-50	SKRP-ABE-010
S1113	013-6312-50	SKRP-ABE-010
S1114	013-6312-50	SKRP-ABE-010
S1115	013-6312-50	SKRP-ABE-010
S1116	013-6312-50	SKRP-ABE-010
S1117	013-6312-50	SKRP-ABE-010
PWB	039-2866-00	PWB(WITHOUT COMPONENT)

CIRCUIT DIAGRAM

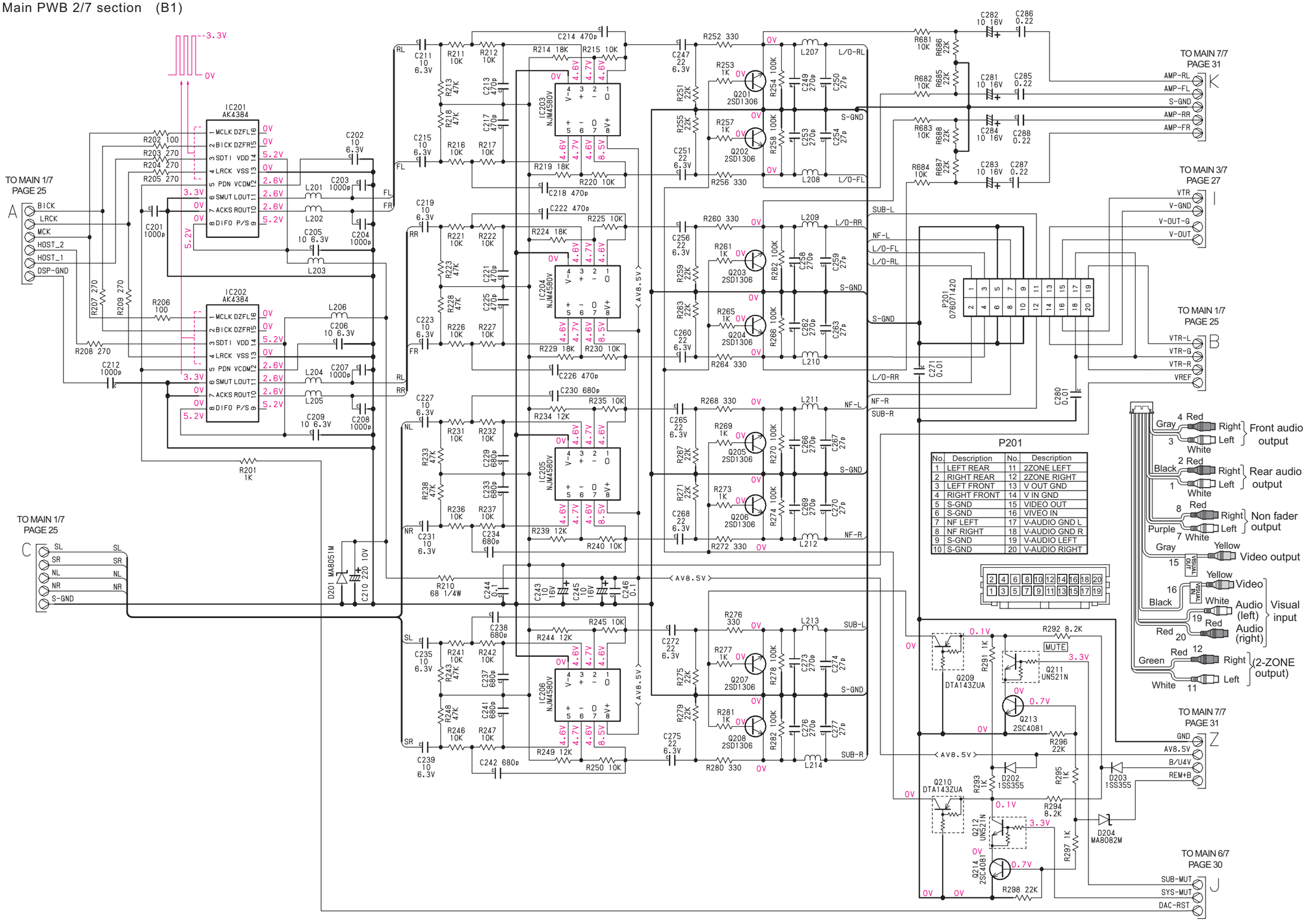
Main PWB 1/7 section (B1)



VRX765VD
VRX766VD

CIRCUIT DIAGRAM

Main PWB 2/7 section (B1)

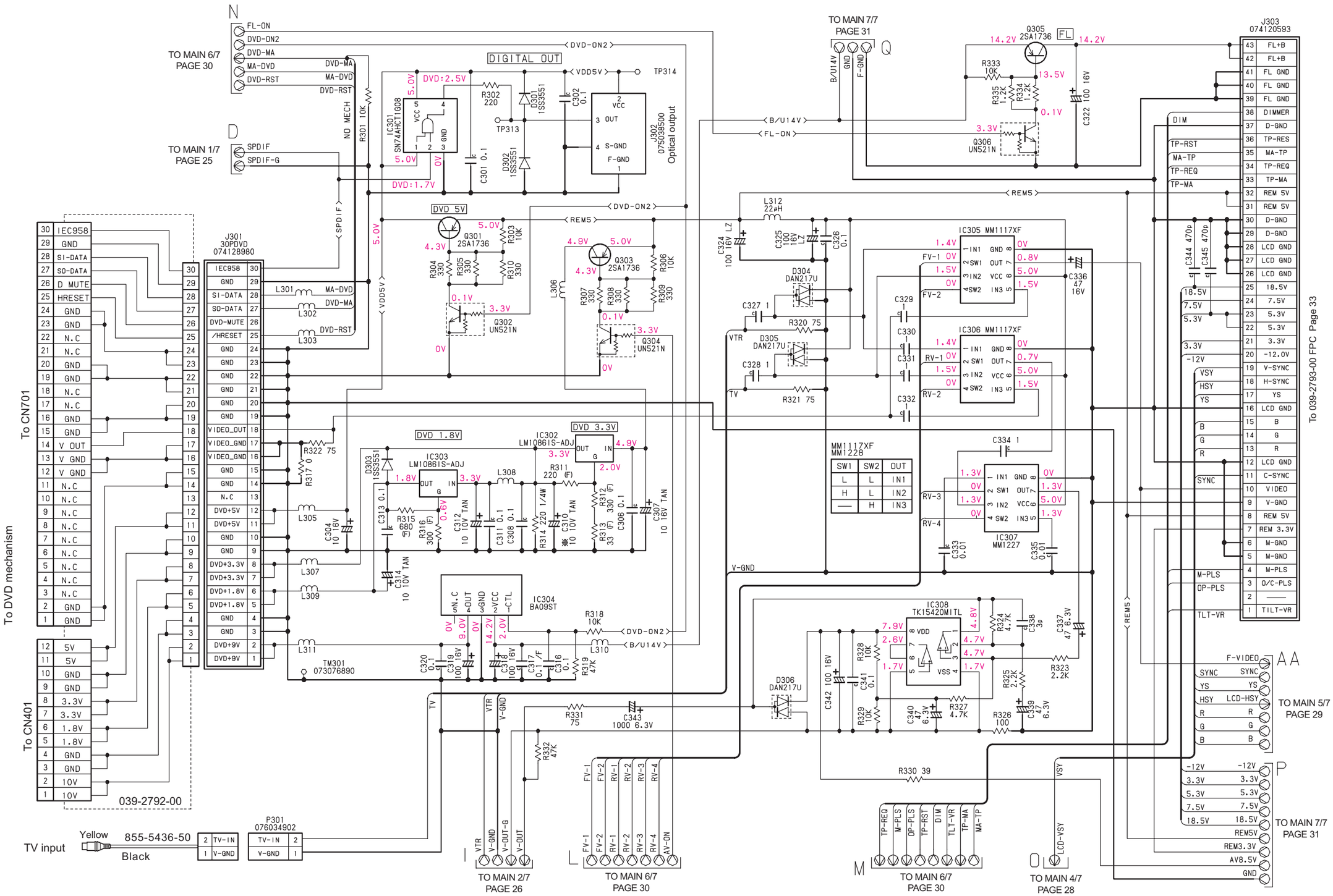


P201

No.	Description	No.	Description
1	LEFT REAR	11	2ZONE LEFT
2	RIGHT REAR	12	2ZONE RIGHT
3	LEFT FRONT	13	V OUT GND
4	RIGHT FRONT	14	V IN GND
5	S-GND	15	VIDEO OUT
6	S-GND	16	VIVEO IN
7	NF LEFT	17	V-AUDIO GND L
8	NF RIGHT	18	V-AUDIO GND R
9	S-GND	19	V-AUDIO LEFT
10	S-GND	20	V-AUDIO RIGHT

CIRCUIT DIAGRAM

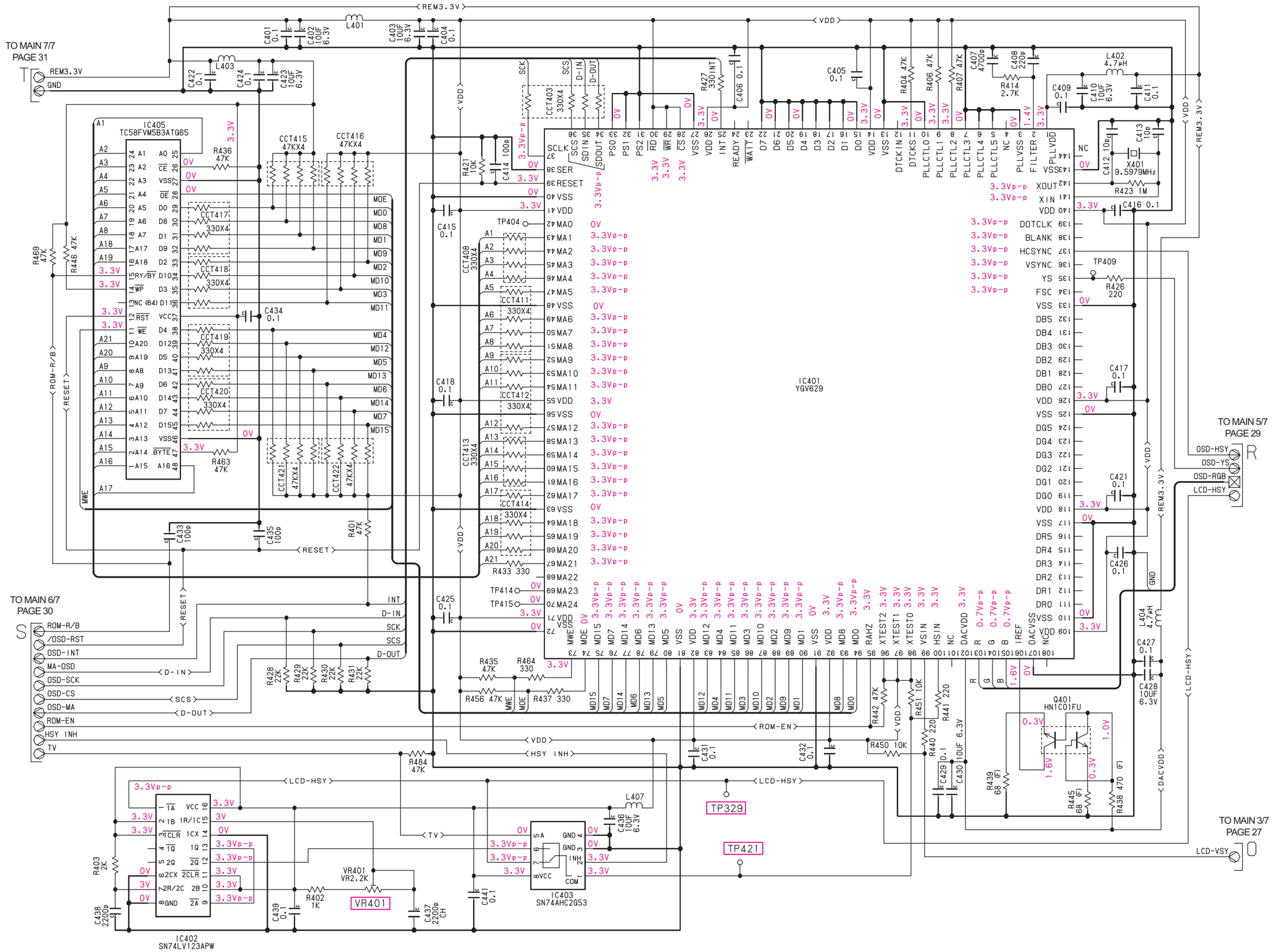
Main PWB 3/7 section (B1)



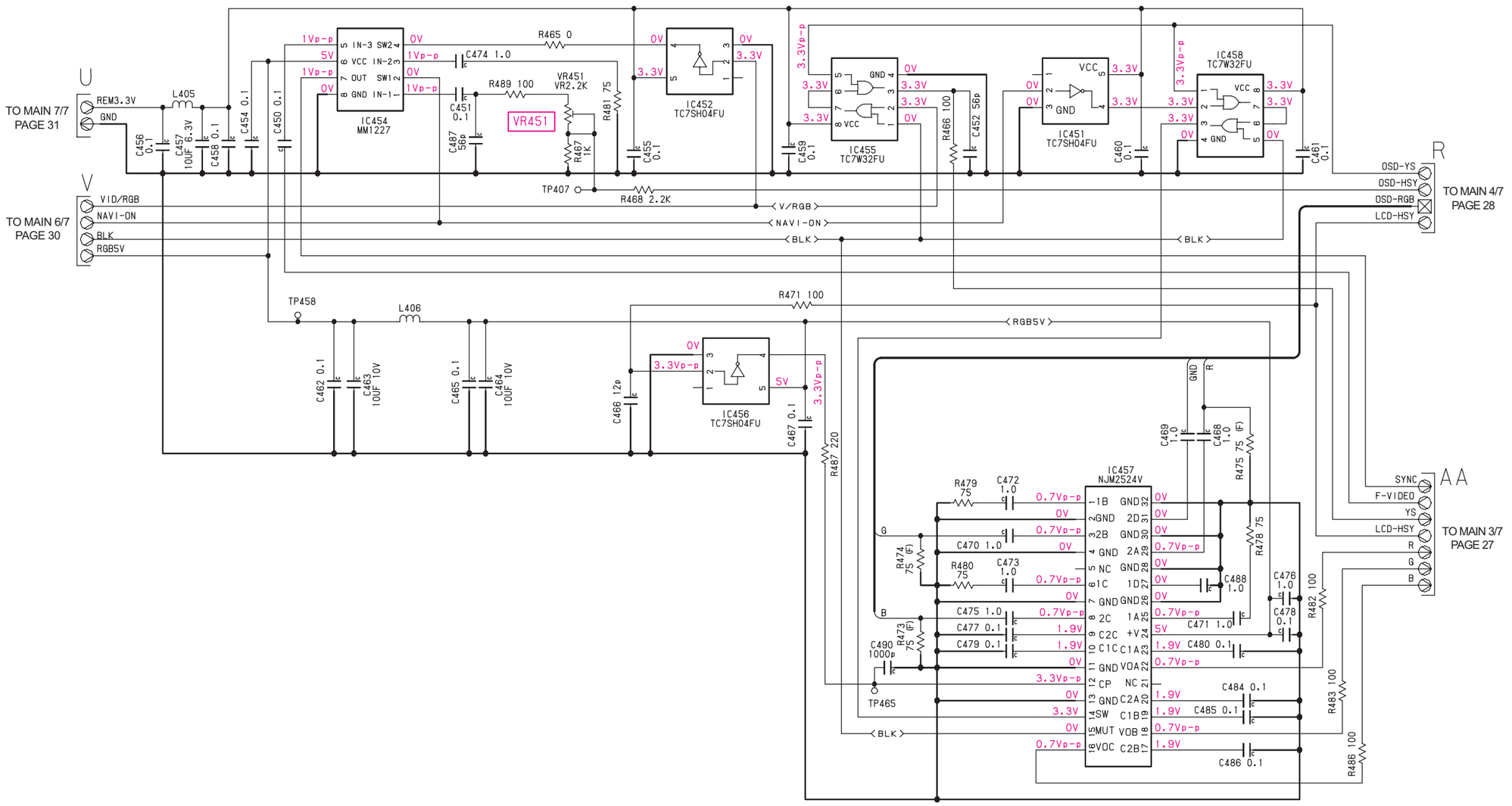
VRX765VD
VRX766VD

CIRCUIT DIAGRAM

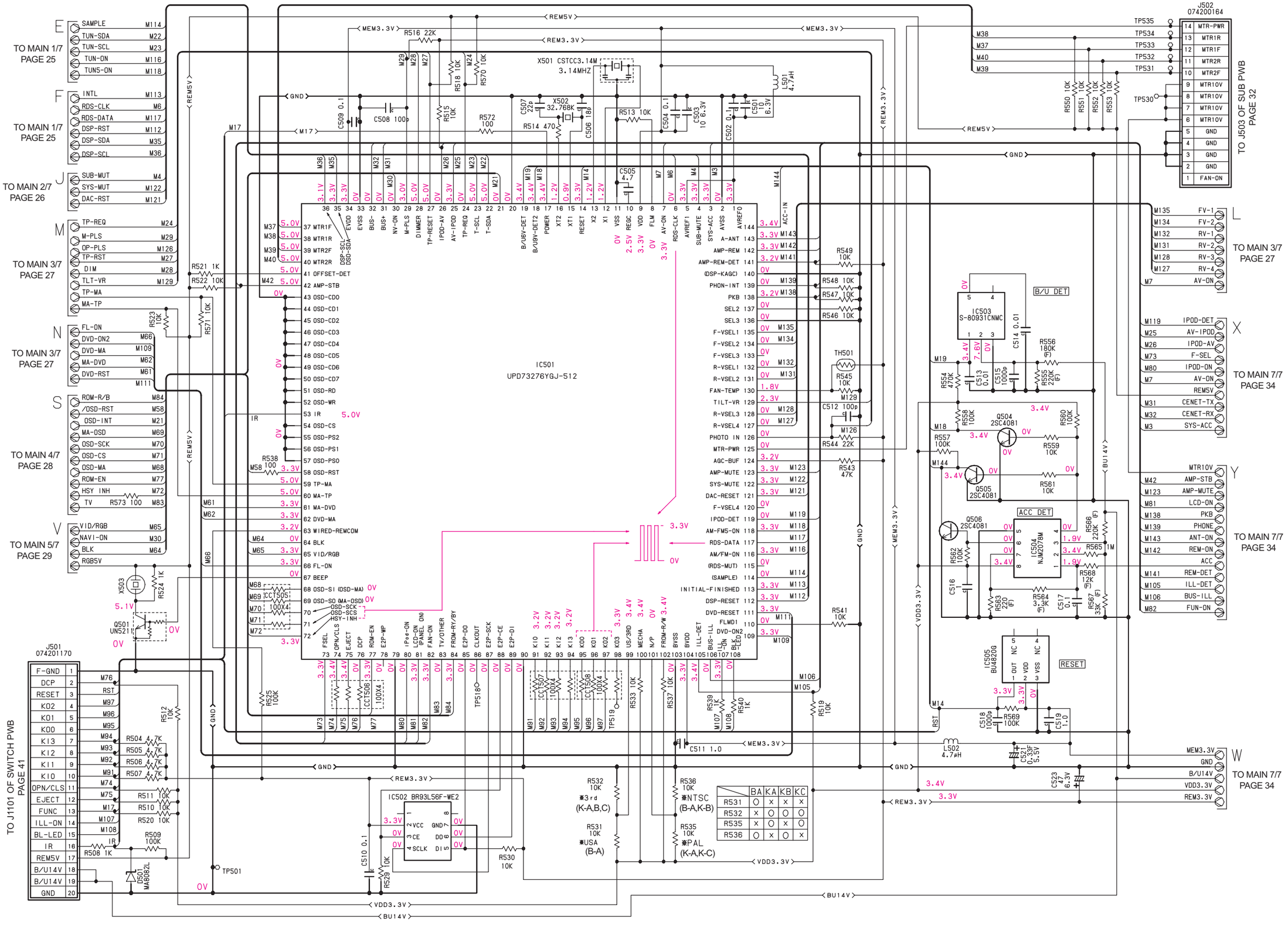
Main PWB 4/7 section (B1)



VRX765VD
VRX766VD

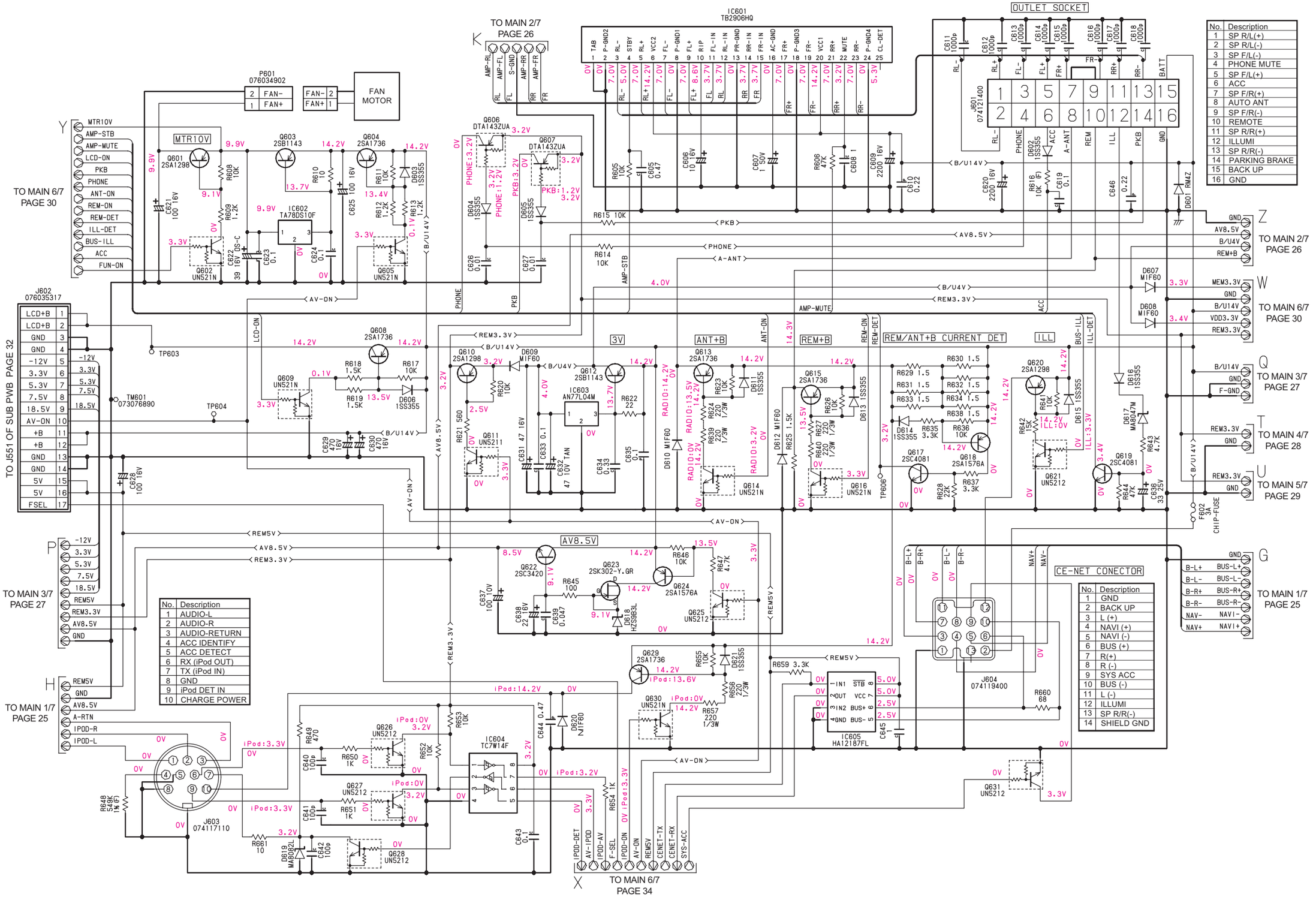

TO MAIN 7/7
PAGE 31
REM3.3V
GND
TO MAIN 6/7
PAGE 30
VID/RGB
NAVI-ON
BLK
RGB5V
L405
C456 0.1
C457 10UF 6.3V
C458 0.1
C454 0.1
C450 0.1
IC454
MM1227
IN-3 SW2
VCC IN-2
OUT SW1
GND IN-1
C474 1.0
R465 0
C451 0.1
R489 100
VR451
VR2.2K
VR451
R467 1K
R481 75
C487 56p
TP407
R468 2.2K
C455 0.1
IC452
TC7SH04FU
C459 0.1
IC455
TC7W32FU
R466 100
C452 56p
IC451
TC7SH04FU
C460 0.1
IC458
TC7W32FU
C461 0.1
V/RGB
NAVI-ON
BLK
BLK
R
OSD-YS
OSD-HSY
OSD-RGB
LCD-HSY
TO MAIN 4/7
PAGE 28
TP458
L406
R471 100
RGB5V
C462 0.1
C463 10UF 10V
C465 0.1
C464 10UF 10V
C466 12p
IC456
TC7SH04FU
C467 0.1
R487 220
GND
R
C469 1.0
C468 1.0
R475 75 (F)
IC457
NJM2524V
R479 75
C472 1.0
G
C470 1.0
R474 75 (F)
R480 75
C473 1.0
B
C475 1.0
C477 0.1
C479 0.1
R473 75 (F)
C490 1000p
TP465
BLK
R478 75
C488 1.0
C476 1.0
C478 0.1
C471 1.0
C480 0.1
C484 0.1
C485 0.1
C486 0.1
R482 100
R483 100
R486 100
SYNC
F-VIDEO
YS
LCD-HSY
R
G
B
TO MAIN 3/7
PAGE 27
A A

Main PWB 6/7 section (B1)



	BA	KA	KB	KC
R531	O	x	x	x
R532	x	O	O	O
R535	x	O	x	O
R536	O	x	O	x

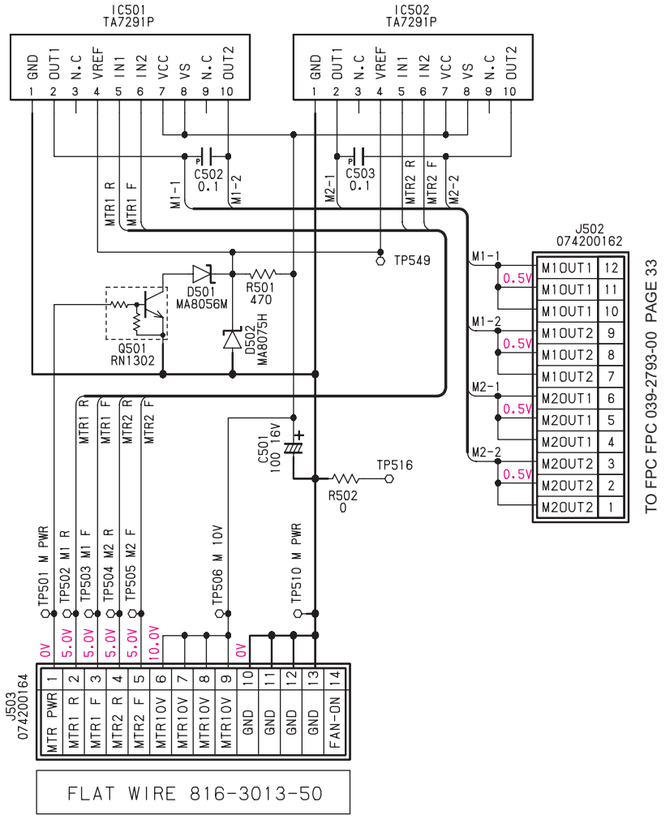
VRX765VD
VRX766VD

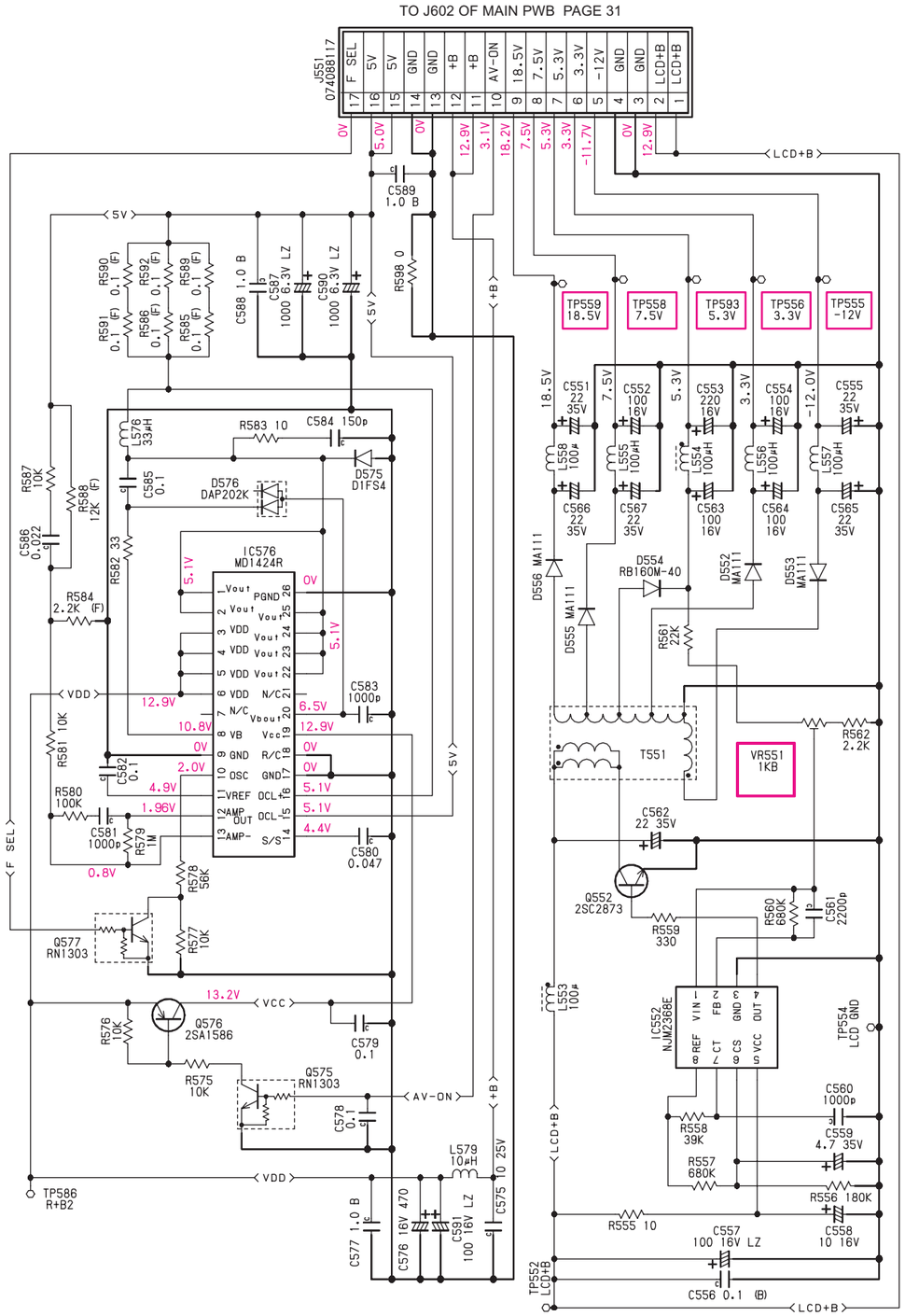


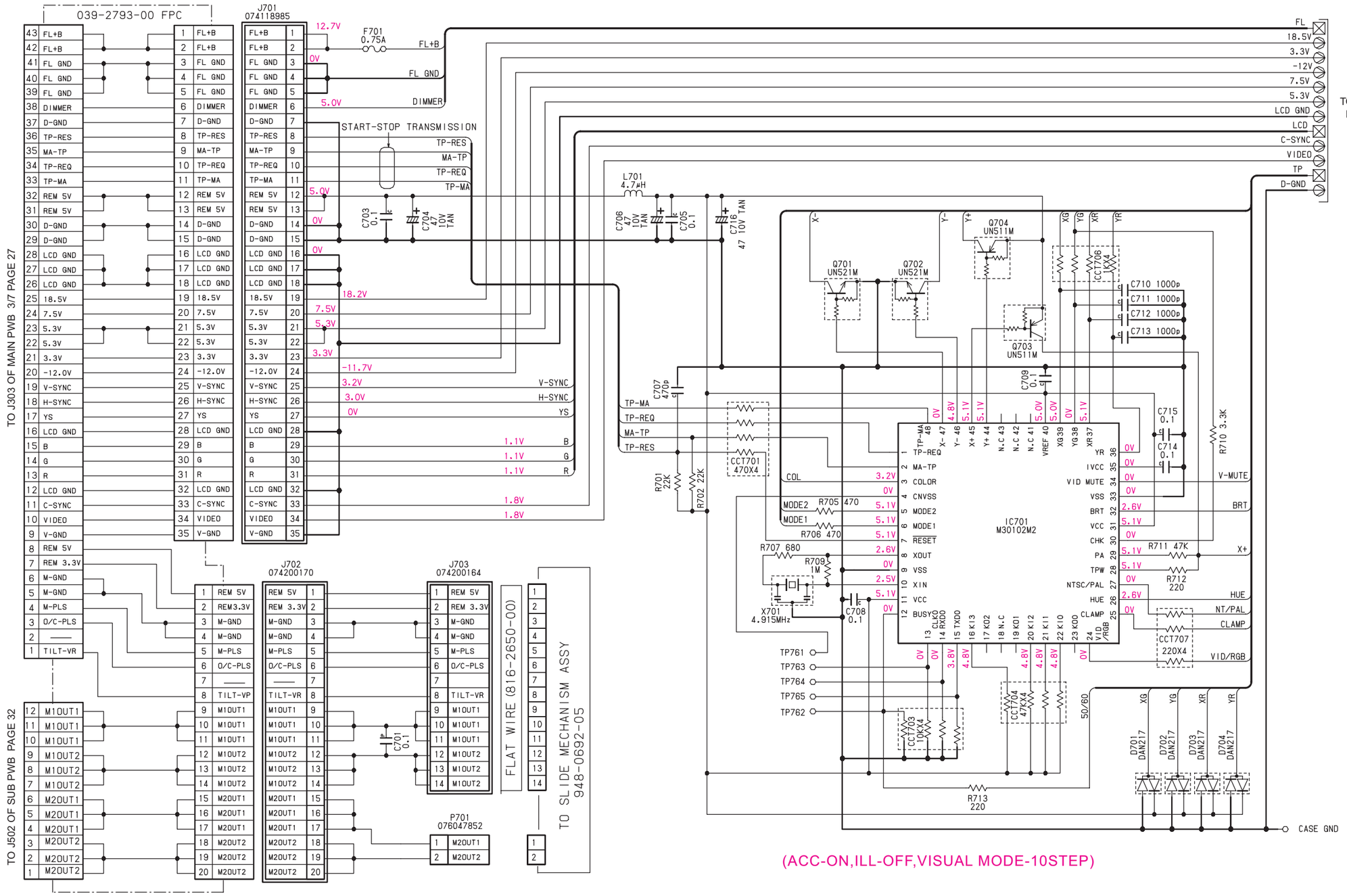
No.	Description
1	SP R/L(+)
2	SP R/L(-)
3	SP F/L(-)
4	PHONE MUTE
5	SP F/L(+)
6	ACC
7	SP F/R(+)
8	AUTO ANT
9	SP F/R(-)
10	REMOTE
11	SP R/R(+)
12	ILLUMI
13	SP R/R(-)
14	PARKING BRAKE
15	BACK UP
16	GND

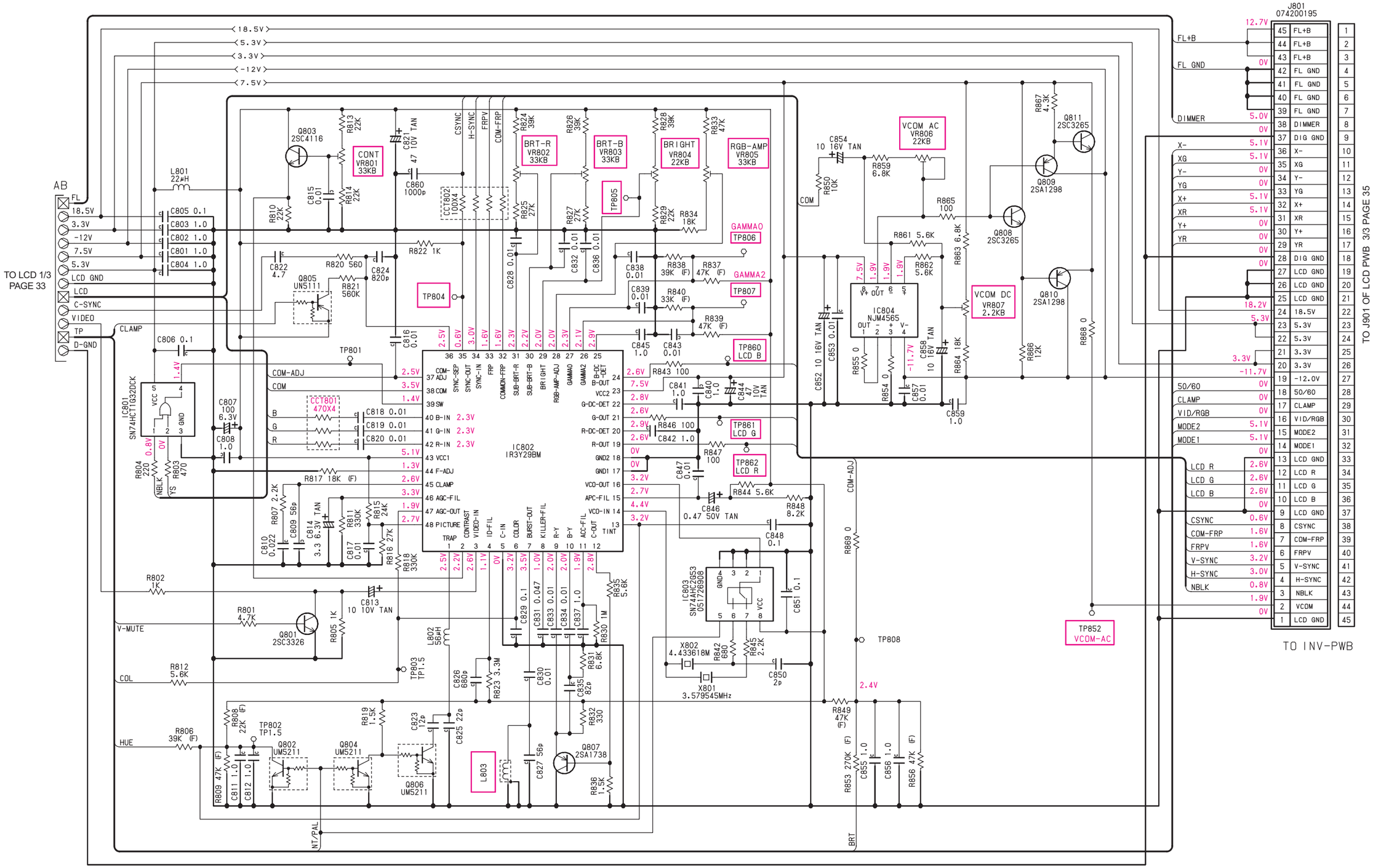
No.	Description
1	AUDIO-L
2	AUDIO-R
3	AUDIO-RETURN
4	ACC IDENTIFY
5	ACC DETECT
6	RX (iPod OUT)
7	TX (iPod IN)
8	GND
9	iPod DET IN
10	CHARGE POWER

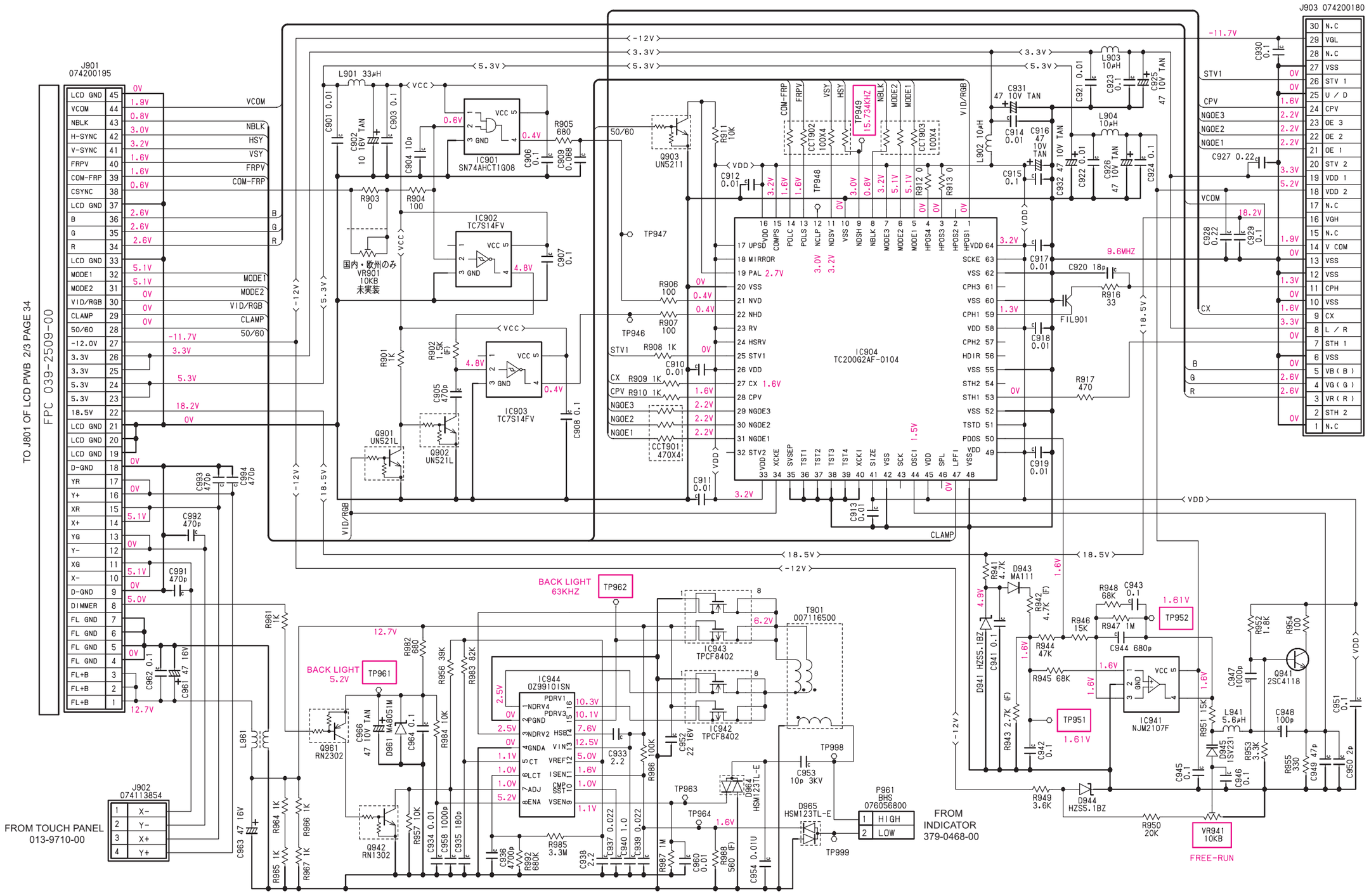
No.	Description
1	GND
2	BACK UP
3	L (+)
4	NAVI (+)
5	NAVI (-)
6	BUS (+)
7	R(+)
8	R (-)
9	SYS ACC
10	BUS (-)
11	L (-)
12	ILLUMI
13	SP R/R(-)
14	SHIELD GND


IC501
TA7291P
GND OUT1 N.C VREF IN1 IN2 VCC VS N.C OUT2
1 2 3 4 5 6 7 8 9 10
IC502
TA7291P
GND OUT1 N.C VREF IN1 IN2 VCC VS N.C OUT2
1 2 3 4 5 6 7 8 9 10
C502 0.1
C503 0.1
M1-1
M1-2
M2-1
M2-2
MTR1 R
MTR1 F
MTR2 R
MTR2 F
TP549
D501 MA8056M
D502 MA8075H
R501 470
Q501 RN1302
C501 100 16V
R502 0
TP516
J502 074200162
M1OUT1 12
M1OUT1 11
M1OUT1 10
M1OUT2 9
M1OUT2 8
M1OUT2 7
M2OUT1 6
M2OUT1 5
M2OUT1 4
M2OUT2 3
M2OUT2 2
M2OUT2 1
0.5V
TO FPC FPC 039-2793-00 PAGE 33
TP501 M PWR
TP502 M1 R
TP503 M1 F
TP504 M2 R
TP505 M2 F
TP506 M 10V
TP510 M PWR
J503 074200164
MTR PWR 1
MTR1 R 2
MTR1 F 3
MTR2 R 4
MTR2 F 5
MTR10V 6
MTR10V 7
MTR10V 8
MTR10V 9
GND 10
GND 11
GND 12
GND 13
FAN-ON 14
0V 5.0V 10.0V
FLAT WIRE 816-3013-50
TO J502 OF MAIN PWB PAGE 30


TO J602 OF MAIN PWB PAGE 31
J551 074088117
F SEL 17
5V 16
5V 15
GND 14
GND 13
+B 12
+B 11
AV-ON 10
18.5V 9
7.5V 8
5.3V 7
-12V 6
GND 5
GND 4
LCD+B 3
LCD+B 2
0V 5.0V 0V 12.9V 3.1V 18.2V 7.5V 5.3V 3.3V -11.7V 0V 12.9V
C589 1.0 B
5V
+B
LCD+B
R590 0.1 (F)
R592 0.1 (F)
R589 0.1 (F)
R591 0.1 (F)
R586 0.1 (F)
R585 0.1 (F)
C588 1.0 B
C587 1000 6.3V LZ
C590 1000 6.3V LZ
R598 0
TP559 18.5V
TP558 7.5V
TP593 5.3V
TP556 3.3V
TP555 -12V
C551 22 35V
C552 100 16V
C553 220 16V
C554 100 16V
C555 22 35V
L558 100µ
L555 100µH
L554 100µH
L556 100µH
L557 100µH
C566 22 35V
C567 22 35V
C563 100 16V
C564 100 16V
C565 22 35V
D556 MA111
D555 MA111
D554 RB160M-40
D552 MA111
D553 MA111
R561 22K
R587 10K
R588 12K (F)
C586 0.022
L576 33µH
C585 0.1
R583 10
C584 150p
D575 D1FS4
D576 DAP202K
R582 33
IC576 MD1424R
Vout PGND
Vout Vout
VDD Vout
VDD Vout
VDD N/C
N/C Vout
VB Vcc
GND R/C
OSC GND
VREF OCL+
AMP OUT OCL-
AMP- S/S
5.1V 0V 5.1V 12.9V 10.8V 0V 2.0V 4.9V 1.96V 0.8V 6.5V 12.9V 0V 0V 5.1V 5.1V 4.4V
R584 2.2K (F)
VDD
R581 10K
C582 0.1
R580 100K
C581 1000p
R579 1M
R578 56K
R577 10K
Q577 RN1303
C583 1000p
C580 0.047
F SEL
5V
13.2V
VCC
Q576 2SA1586
R576 10K
C579 0.1
R575 10K
Q575 RN1303
AV-ON
C578 0.1
L579 10µH
C591 100 16V LZ
C575 10 25V
C576 16V 470
C577 1.0 B
TP586 R+B2
T551
VR551 1KB
R562 2.2K
C562 22 35V
Q552 2SC2873
R559 330
R560 68K
C561 2200p
L553 100µ
C552 NJM2368E
VIN- FB
REF CT CS VCC
GND OUT
TP554 LCD GND
C560 1000p
R558 39K
C559 4.7 35V
R557 680K
R556 180K
R555 10
C557 100 16V LZ
C558 10 16V
TP552 LCD+B
C556 0.1 (B)


039-2793-00 FPC
J701
074118985
J702
074200170
J703
074200164
P701
076047852
TO J303 OF MAIN PWB 3/7 PAGE 27
TO J502 OF SUB PWB PAGE 32
FLAT WIRE (816-2650-00)
TO SLIDE MECHANISM ASSY
948-0692-05
TO LCD 2/3
PAGE 34
START-STOP TRANSMISSION
F701
0.75A
L701
4.7μH
IC701
M30102M2
X701
4.915MHz
CCT701
470X4
CCT706
1KX4
CCT707
220X4
CCT703
10KX4
CCT704
47KX4
Q701
UN521M
Q702
UN521M
Q703
UN511M
Q704
UN511M
D701
DAN217
D702
DAN217
D703
DAN217
D704
DAN217
R710 3.3K
R711 47K
R712
220
R713
220
CASE GND
(ACC-ON,ILL-OFF,VISUAL MODE-10STEP)


J801
074200195
TO LCD 1/3
PAGE 33
TO J901 OF LCD PWB 3/3 PAGE 35
TO INV-PWB
18.5V
5.3V
3.3V
-12V
7.5V
FL+B
FL GND
DIMMER
X-
XG
Y-
YG
X+
XR
Y+
YR
LCD GND
18.2V
5.3V
3.3V
-11.7V
50/60
CLAMP
VID/RGB
MODE2
MODE1
LCD R
LCD G
LCD B
CSYNC
COM-FRP
FRPV
V-SYNC
H-SYNC
NBLK
VCOM
L801 22µH
IC801 SN74HCT1G32DCK
IC802 IR3Y29BM
IC803 SN74AHC2G53 0517269O8
IC804 NJM4565
X801 3.579545MHz
X802 4.433618M
CONT VR801 33KB
BRT-R VR802 33KB
BRT-B VR803 33KB
BRIGHT VR804 22KB
RGB-AMP VR805 33KB
VCOM AC VR806 22KB
VCOM DC VR807 2.2KB
GAMMA0 TP806
GAMMA2 TP807
TP860 LCD B
TP861 LCD G
TP862 LCD R
TP852 VCOM-AC
TP808
TP801
TP802 TP1.5
TP803 TP1.5
TP804
TP805
CCT802 100X4
CCT801 470X4
L802 56µH
L803
Q801 2SC3326
Q802 UM5211
Q803 2SC4116
Q804 UM5211
Q805 UN5111
Q806 UM5211
Q807 2SA1738
Q808 2SA1298
Q809 2SA1298
Q810 2SA1298
Q811 2SC3265
V-MUTE
COL
HUE
NT/PAL
BRT
COM-ADJ
CLAMP
COM
NBLK
YS


J901
074200195
TO J801 OF LCD PWB 2/3 PAGE 34
FPC 039-2509-00
J903 074200180
FROM INDICATOR 379-0468-00
J902
074113854
FROM TOUCH PANEL
013-9710-00
P961
BHS
076056800
FROM
INDICATOR
379-0468-00
IC904
TC200G2AF-0104
IC901
SN74AHCT1G08
IC902
TC7S14FV
IC903
TC7S14FV
IC941
NJM2107F
IC942
TPCF8402
IC943
TPCF8402
IC944
OZ9910ISN
T901
007116500
Q901
UN521L
Q902
UN521L
Q903
UN5211
Q941
2SC4118
Q942
RN1302
Q961
RN2302
D941
HZS5.1BZ
D943
MA111
D944
HZS5.1BZ
D945
1SV231
D961
MA8051M
D964
HSM123TL-E
D965
HSM123TL-E
L901 33µH
L902 10µH
L903
10µH
L904
10µH
L941
5.6µH
L961
FIL901
CCT901
470X4
CCT902
100X4
CCT903
100X4
VR901
10KB
未実装
VR941
10KB
FREE-RUN
国内・欧州のみ
TP946
TP947
TP948
TP949
15.734KHZ
TP951
1.61V
TP952
TP961
TP962
TP963
TP964
TP998
TP999
BACK LIGHT
5.2V
BACK LIGHT
63KHZ
9.6MHZ
18.2V
-11.7V
-12V
3.3V
5.3V
18.5V
VDD
VID/RGB
CLAMP
50/60
VCOM
NBLK
HSY
VSY
FRPV
COM-FRP
MODE1
MODE2
VID/RGB
CLAMP
50/60
B
G
R
STV1
CPV
NGOE3
NGOE2
NGOE1
CX
FROM TOUCH PANEL
013-9710-00
FROM
INDICATOR
379-0468-00
FREE-RUN

PRINTED WIRING BOARD

Main PWB(B1) section

No.	Description
1	GND
2	BACK UP
3	L-CH(+)
4	N.C.
5	N.C.
6	BUS(+)
7	R-CH(+)
8	R-CH(-)
9	SYS-ACC
10	BUS(-)
11	L-CH(-)
12	ILLUMI
13	N.C.

J604 (CeNET)

J601

No.	Description	No.	Description
1	SP R/L(+)	2	SP R/L(-)
3	SP F/L(-)	4	PHONE MUTE
5	SP F/L(+)	6	ACC
7	SP F/R(+)	8	AUTO ANT
9	SP F/R(-)	10	REMOTE
11	SP R/R(+)	12	ILLUMI
13	SP R/R(-)	14	PARKING BRAKE
15	BACK UP	16	GND

J603

No.	Description
1	AUDIO-L
2	AUDIO-R
3	AUDIO-RETURN
4	ACC IDENTIFY
5	ACC DETECT
6	RX (iPod OUT)
7	TX (iPod IN)
8	GND
9	iPod DET IN
10	CHARGE POWER

TV INPUT

YELLOW

Optical output connector

P201

No.	Description	No.	Description
1	LEFT REAR	11	2ZONE LEFT
2	RIGHT REAR	12	2ZONE RIGHT
3	LEFT FRONT	13	V OUT GND
4	RIGHT FRONT	14	V IN GND
5	S-GND	15	VIDEO OUT
6	S-GND	16	VIVEO IN
7	NF LEFT	17	V-AUDIO GND L
8	NF RIGHT	18	V-AUDIO GND R
9	S-GND	19	V-AUDIO LEFT
10	S-GND	20	V-AUDIO RIGHT

020-3042-01

FAN

VR401

To J551 of SUB PWB page 40

To J701 of LCD PWB page 39

039-2793-00 FPC

To J503 of Sub PWB(B2) page 40

To page M12 Servo PWB(BM1) CN2 (DVD mechanism)

039-2792-00 FPC

Radio antenna Jack

ANT101

COMPONENT SIDE

Caution:
COMPONENT SIDE: Parts on the component side seen from the component side are indicated.

IC	Q
IC601 IC301	
	Q613
IC303 IC306 IC305 IC307	Q615 Q616 Q618 Q617 Q614
IC308 IC302	Q601
IC203 IC204 IC205 IC206 IC304 IC101	Q303
	Q604 Q301 Q603
IC458 IC451 IC457	Q622
IC201 IC105 IC456	Q612
IC202	Q608 Q106
	Q401
IC503	Q102 Q103 Q105 Q606
IC401	Q607 Q104 Q503
IC103	Q502
IC501 IC405	
IC505	

Note)This PWB has the four-layer boaud.

Main PWB(B1) section

No.	Description	No.	Description
1	LEFT REAR	11	2ZONE LEFT
2	RIGHT REAR	12	2ZONE RIGHT
3	LEFT FRONT	13	V OUT GND
4	RIGHT FRONT	14	V IN GND
5	S-GND	15	VIDEO OUT
6	S-GND	16	VIVEO IN
7	NF LEFT	17	V-AUDIO GND L
8	NF RIGHT	18	V-AUDIO GND R
9	S-GND	19	V-AUDIO LEFT
10	S-GND	20	V-AUDIO RIGHT

P201

Optical output connector

J603

No.	Description
1	AUDIO-L
2	AUDIO-R
3	AUDIO-RETURN
4	ACC IDENTIFY
5	ACC DETECT
6	RX (iPod OUT)
7	TX (iPod IN)
8	GND
9	iPod DET IN
10	CHARGE POWER

No.	Description	No.	Description
1	SP R/L(+)	2	SP R/L(-)
3	SP F/L(-)	4	PHONE MUTE
5	SP F/L(+)	6	ACC
7	SP F/R(+)	8	AUTO ANT
9	SP F/R(-)	10	REMOTE
11	SP R/R(+)	12	ILLUMI
13	SP R/R(-)	14	PARKING BRAKE
15	BACK UP	16	GND

J601

J604 (CeNET)

No.	Description
1	GND
2	BACK UP
3	L-CH(+)
4	N.C.
5	N.C.
6	BUS(+)
7	R-CH(+)
8	R-CH(-)
9	SYS-ACC
10	BUS(-)
11	L-CH(-)
12	ILLUMI
13	N.C.

Q	IC
Q627 Q628 Q626 Q629	
Q630 Q631	IC604
Q620	
Q619	
Q621	IC605
	IC102
Q605	
Q203 Q202 Q201 Q206 Q205 Q204	
Q213 Q208 Q207 Q214 Q602 Q625	
Q211 Q212 Q304	
Q624 Q611 Q302 Q209 Q210 Q623	
	IC602
Q610	IC603 IC454
	IC452 IC104
Q305 Q306	IC455
	IC402
Q609	IC504
Q504	
Q506 Q505	IC403
	IC502
Q501	

VR451

TP329

TP421

SOLDER SIDE

Caution:
SOLDER SIDE: Parts on the solder side seen from the solder side are indicated.

The parts of a dashed line express the parts on a component side.

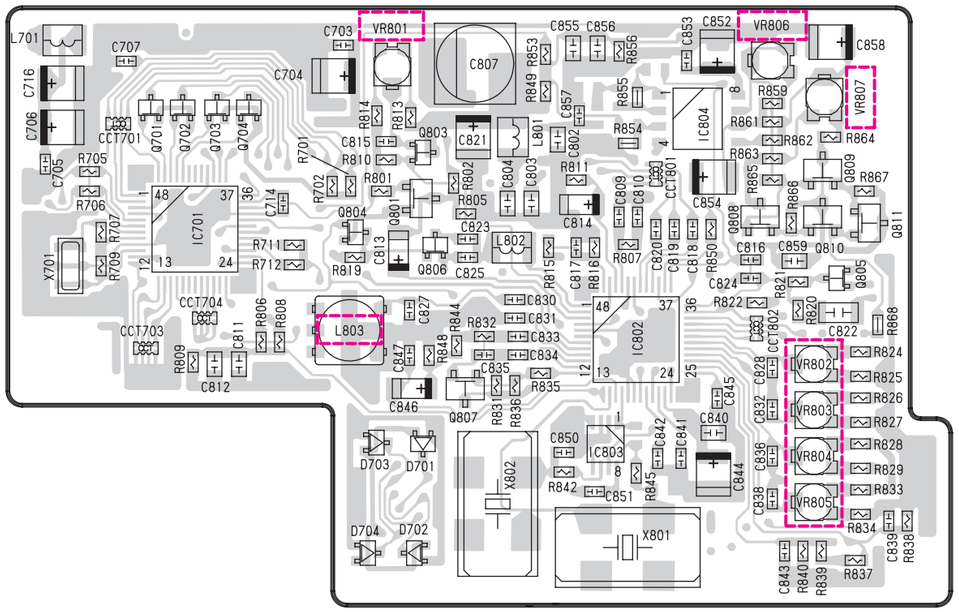
B-A	R536,R531

K-B	R536,R532
K-A,K-C	R535,R532

To J1101 of Switch PWB page 42

PRINTED WIRING BOARD

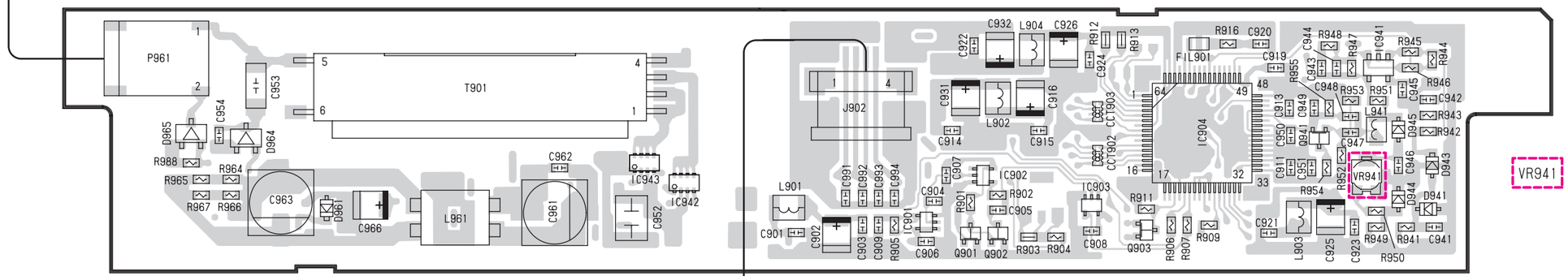
LCD PWB(B3) section



VR806
VR801
VR807

L803
VR802
VR803
VR804
VR805

To TFT INDICATOR
379-0468-00



VR941

COMPONENT SIDE

To TOUCH PANEL
013-9710-00

IC701 IC943 IC942 IC803 IC802 IC804 IC901 IC902 IC903 IC904 IC941 IC

Q701 Q702 Q703 Q704 Q804 Q801 Q806 Q807 Q803 Q808 Q901 Q809 Q902 Q805 Q811 Q810 Q903 Q941 Q

Note)This PWB has the four-layer boaud.

Caution:
COMPONENT SIDE: Parts on the component side seen from the component side are indicated.

LCD PWB(B3) section

To J502 of Sub PWB
Page 40

To J303 of Main PWB
Page 36

FPC
039-2793-00

To SLIDE MECHANISM
948-0692-05

FLAT WIRE
816-2650-00

To SLIDE MECHANISM
948-0692-05

To INDICATOR
379-5006-00

FPC
039-2509-00

TP804
TP805
TP860
TP861
TP862
TP852
TP806
TP807

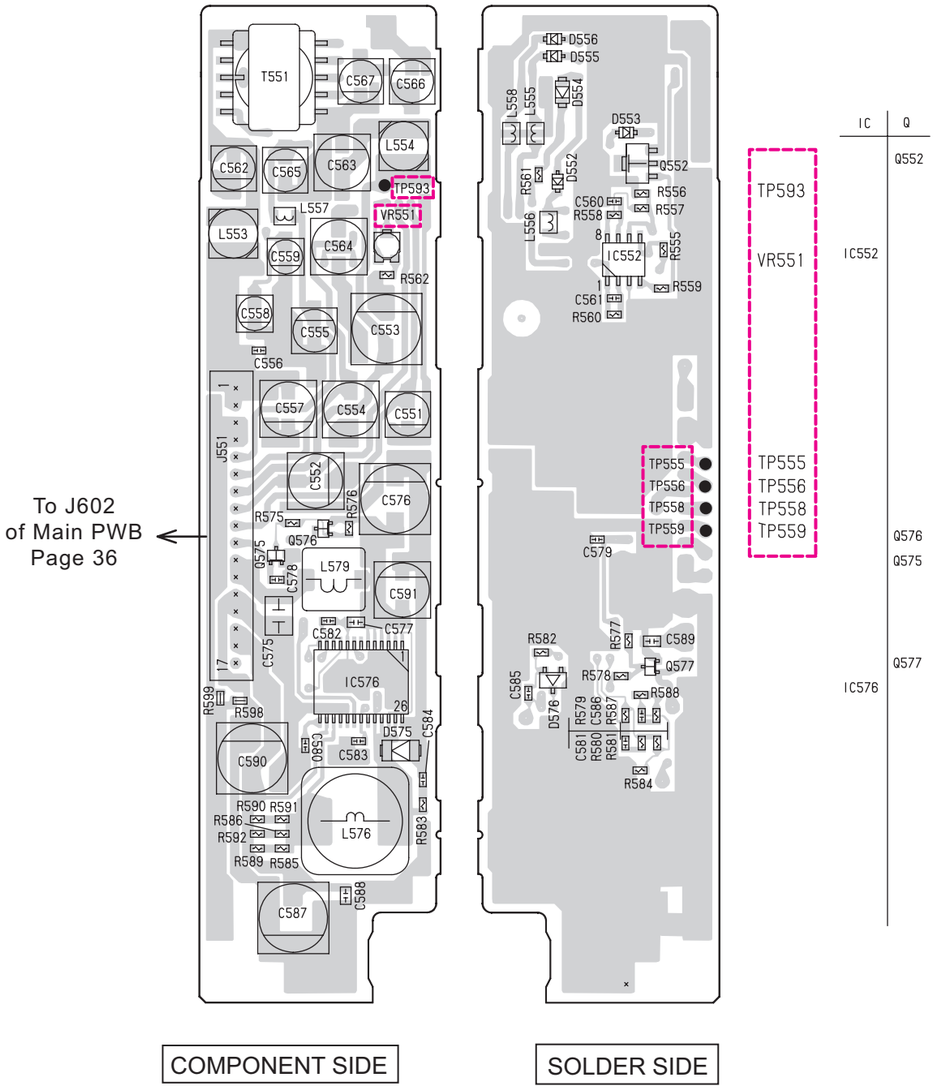
TP951
TP952
TP949
TP962
TP961

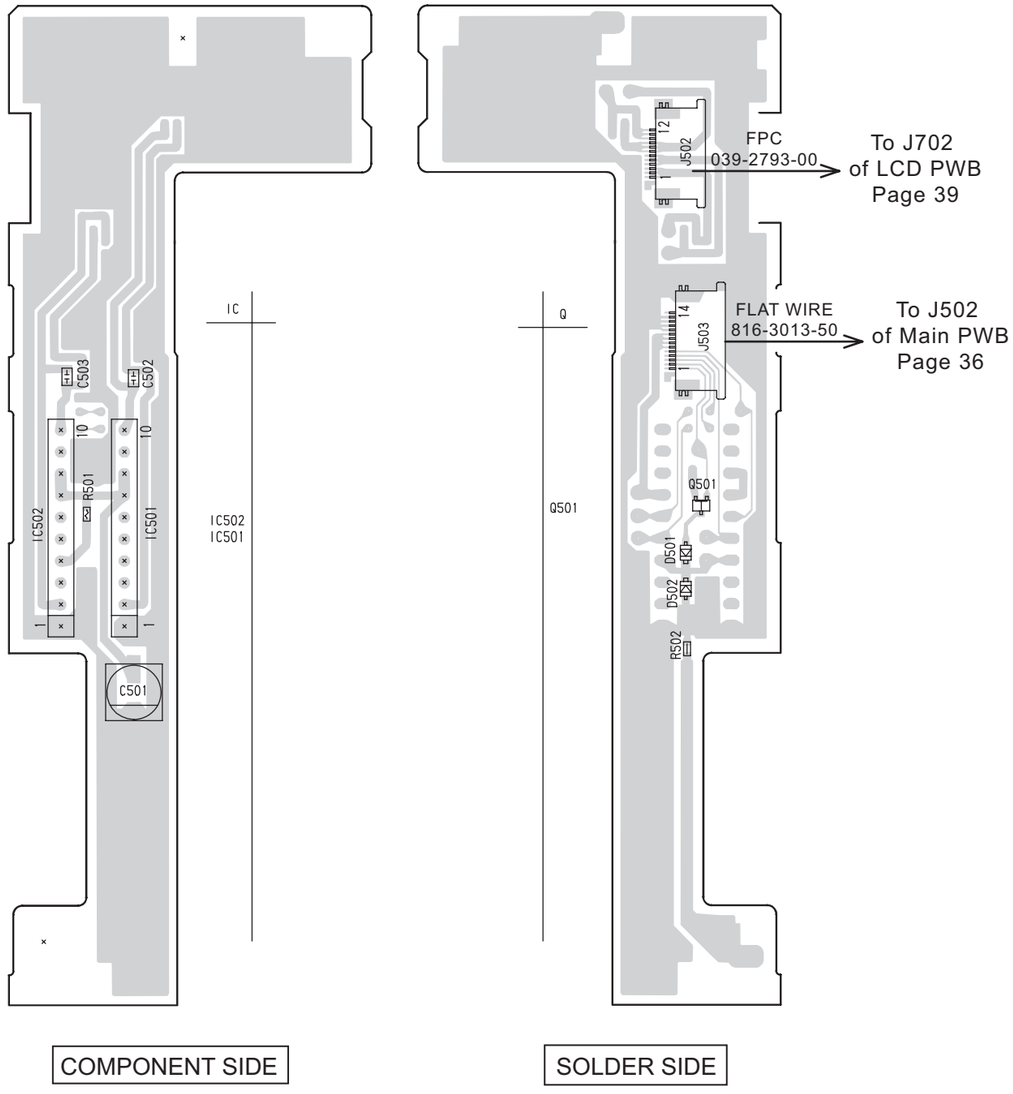
SOLDER SIDE

IC
IC801
IC944

Q
Q802
Q943
Q961
Q942

Caution:
SOLDER SIDE: Parts on the solder side seen from the solder side are indicated.

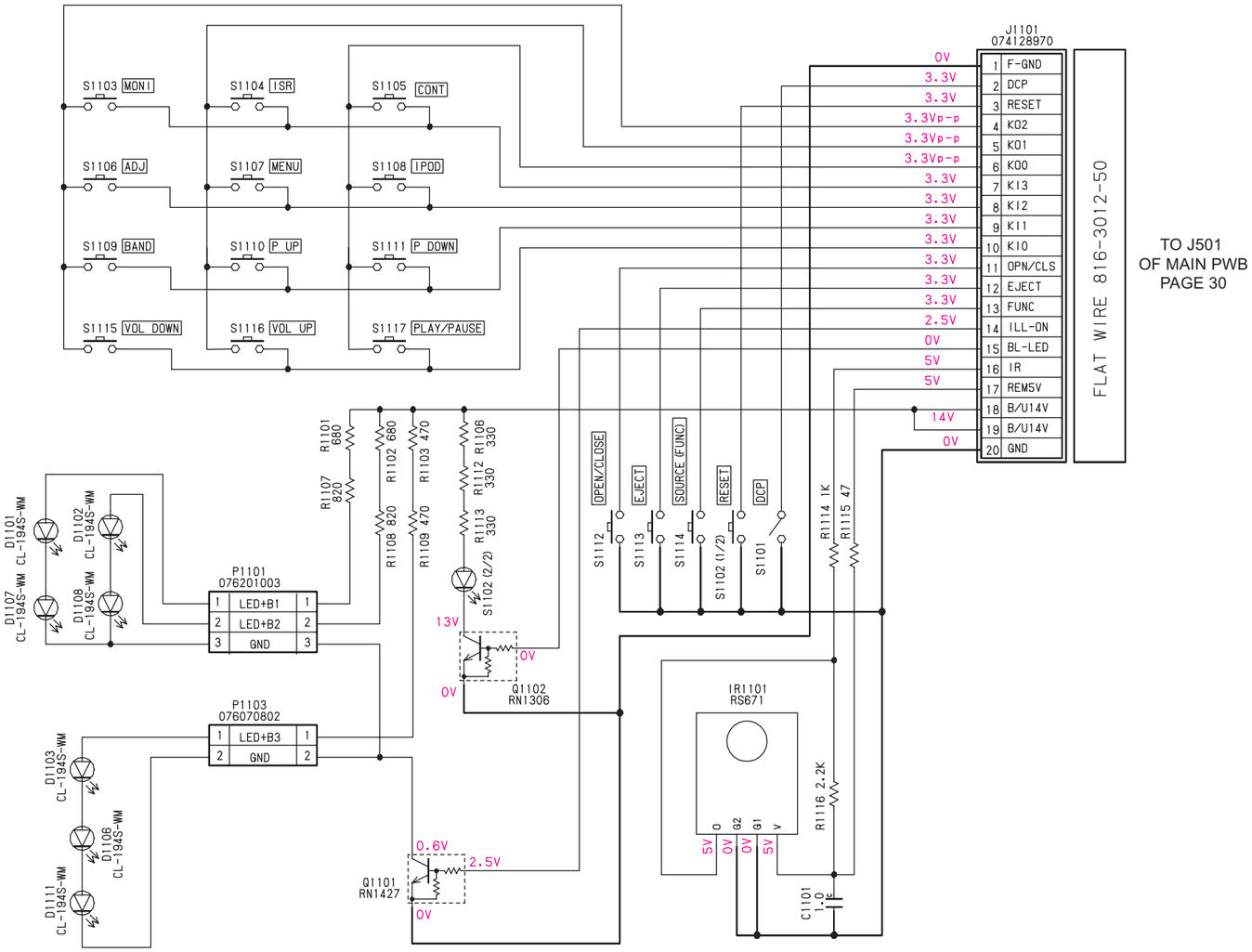




Caution:
COMPONENT SIDE: Parts on the component side seen from the component side are indicated.
SOLDER SIDE: Parts on the solder side seen from the solder side are indicated.

CIRCUIT DIAGRAM

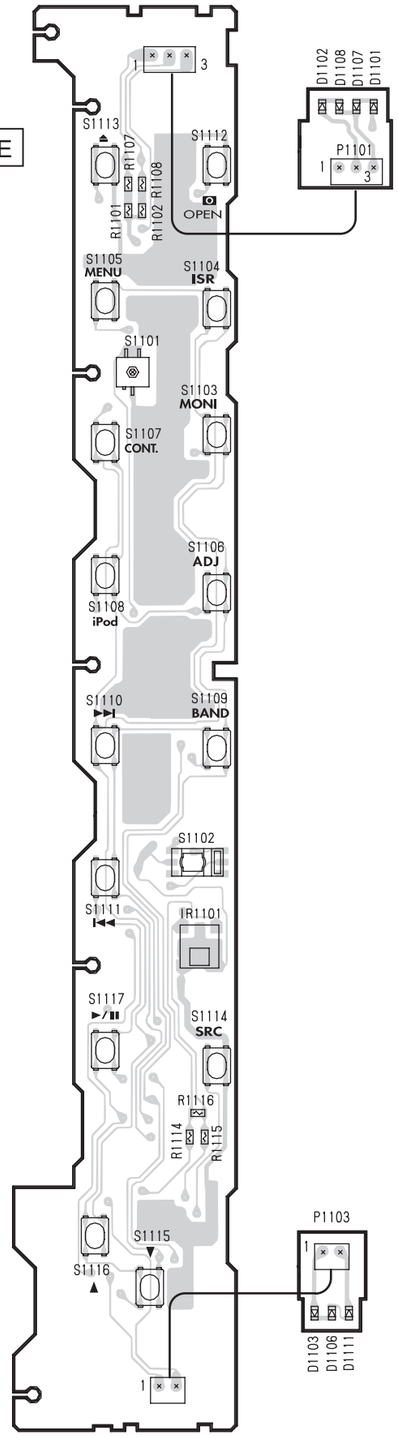
Switch PWB section (B4)

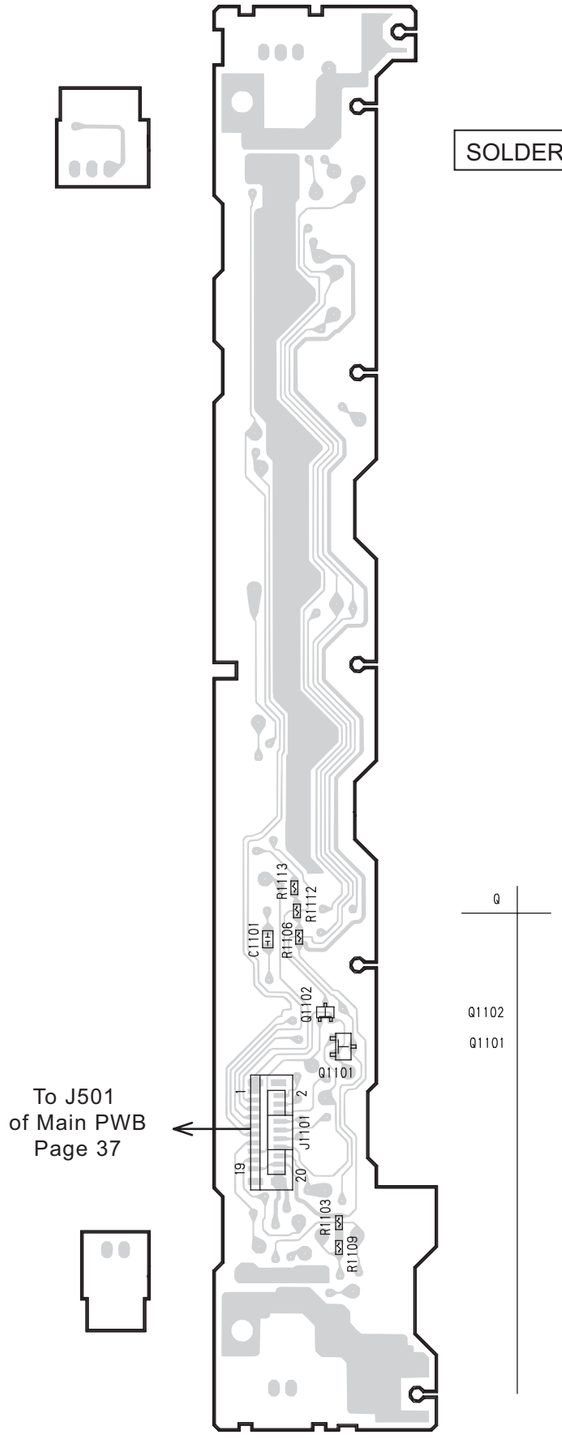


PRINTED WIRING BOARD

Switch PWB(B4) section

COMPONENT SIDE





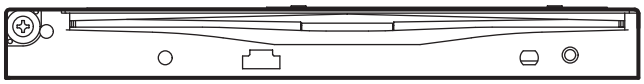
SOLDER SIDE

Caution:
COMPONENT SIDE: Parts on the component side seen from the component side are indicated.
SOLDER SIDE: Parts on the solder side seen from the solder side are indicated.

Clarion Co., Ltd.
50 Kamitoda, Toda-shi, Saitama 335-8511 Japan
Service Dept.: 5-66 Azuma , Kitamoto-shi, Saitama 364-0007 Japan
Tel: +81-48-541-2335 / 2432 FAX: +81-48-541-2703

Published by Service Dept.
Feb.2006
Printed in Japan

Service Manual



DVD Mechanism

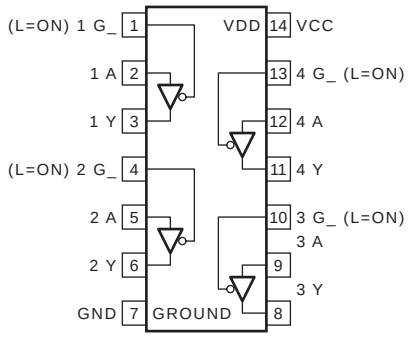
Model 929-2504-00

NOTES

* The FPC pattern of a spare suspension assembly is short-circuited to prevent destruction with static electricity. Please open short-circuit after you connect it with servo PWB.
* The application software is recorded in the flash memory(IC621). Please install the application software of this model when you use a spare mechanism assembly.(The special disk is necessary to install it.)
* Specifications and design are subject to change without notice for further improvement.

EXPLANATION OF IC

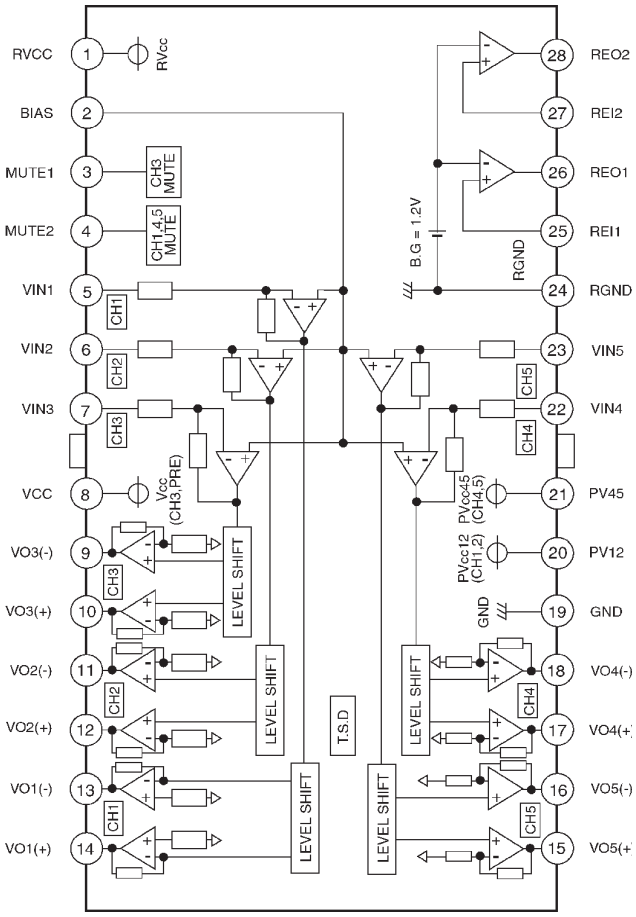
658-0244-01 C0JBAZ001014 Quad Buffer with 3-state control (MC74VHC125DTR2)



Truth Table

Output Y	G_	A
High impedance	H	don't care
L	L	L
H	L	H

658-0237-08 C0GBY0000012 Coil & Motor Driver



Terminal Description

pin 1:	VDD IO	: - :	I/O pad power (3.3V)
pin 2:	MD 10	:I/O:	SDRAM data bus (0V)
pin 3:	MD 11	:I/O:	SDRAM data bus (0.6V)
pin 4:	VDD	: - :	Core power (1.8V)
pin 5:	MD 12	:I/O:	SDRAM data bus (0V)
pin 6:	VSS IO	: - :	I/O pad ground (0V)
pin 7:	MD 13	:I/O:	SDRAM data bus (0.7V)
pin 8:	MD 14	:I/O:	SDRAM data bus (0.5V)
pin 9:	MD 15	:I/O:	SDRAM data bus (0V)
pin 10:	VDD IO	: - :	I/O pad power (3.3V)
pin 11:	/DQM 1	: O :	SDRAM data byte enable (0V)
pin 12:	MA 9	: O :	SDRAM address bus (0V)
pin 13:	MA 8	: O :	SDRAM address bus (0V)
pin 14:	VSS IO	: - :	I/O pad ground (0V)
pin 15:	MA 7	: O :	SDRAM address bus (2.3V)
pin 16:	MA 6	: O :	SDRAM address bus (1.9V)
pin 17:	VSS	: - :	Core ground (0V)
pin 18:	MA 5	: O :	SDRAM address bus (1.1V)
pin 19:	VDD IO	: - :	I/O pad power (3.3V)
pin 20:	MA 4	: O :	SDRAM address bus (2V)
pin 21:	MA 3	: O :	SDRAM address bus (2.3V)
pin 22:	MCLK	: O :	SDRAM clock (1.7V)
pin 23:	VSS IO	: - :	I/O pad ground (0V)
pin 24:	CKE	: O :	SDRAM clock enable (3.3V)
pin 25:	MA 2	: O :	SDRAM address bus (2.3V)
pin 26:	MA 1	: O :	SDRAM address bus (1V)
pin 27:	VDD IO	: - :	I/O pad power (3.3V)
pin 28:	MA 0	: O :	SDRAM address bus (1V)
pin 29:	MA 10	: O :	SDRAM address bus (0V)
pin 30:	MA 11	: - :	Not used
pin 31:	VSS IO	: - :	I/O pad ground (0V)
pin 32:	MA 12	: O :	SDRAM address bus (2.1V)
pin 33:	MA 13	: O :	SDRAM address bus (2.1V)
pin 34:	VDD	: - :	Core power (1.8V)
pin 35:	/CS 0	: O :	SDRAM primary bank chip select (2.7V)
pin 36:	VDD IO	: - :	I/O pad power (3.3V)
pin 37:	/RAS	: O :	SDRAM command bit (3.1V)
pin 38:	/CAS	: O :	SDRAM command bit (2.9V)
pin 39:	/WE	: O :	SDRAM command bit (3.2V)
pin 40:	VSS IO	: - :	I/O pad ground (0V)
pin 41:	/DQM 0	: O :	SDRAM data byte enable (0V)
pin 42:	/DQM 2	: O :	SDRAM data byte enable (0V)
pin 43:	MD 16	:I/O:	SDRAM data bus (0.5V)
pin 44:	VDD IO	: - :	I/O pad power (3.3V)
pin 45:	MD 17	:I/O:	SDRAM data bus (0.5V)
pin 46:	MD 18	:I/O:	SDRAM data bus (0.5V)
pin 47:	VSS	: - :	Core ground (0V)
pin 48:	MD 19	:I/O:	SDRAM data bus (0.7V)
pin 49:	VSS IO	: - :	I/O pad ground (0V)
pin 50:	MD 20	:I/O:	SDRAM data bus (0V)
pin 51:	MD 21	:I/O:	SDRAM data bus (1.5V)
pin 52:	MD 22	:I/O:	SDRAM data bus (1V)
pin 53:	VDD IO	: - :	I/O pad power (3.3V)
pin 54:	MD 23	:I/O:	SDRAM data bus (0V)
pin 55:	MD 24	:I/O:	SDRAM data bus (0.5V)
pin 56:	MD 25	:I/O:	SDRAM data bus (0.5V)
pin 57:	VSS IO	: - :	I/O pad ground (0V)
pin 58:	MD 26	:I/O:	SDRAM data bus (0.5V)
pin 59:	MD 27	:I/O:	SDRAM data bus (0.8V)
pin 60:	MD 28	:I/O:	SDRAM data bus (0V)
pin 61:	MD 29	:I/O:	SDRAM data bus (1V)
pin 62:	VDD IO	: - :	I/O pad power (3.3V)
pin 63:	MD 30	:I/O:	SDRAM data bus (0.7V)
pin 64:	MD 31	:I/O:	SDRAM data bus (0.5V)
pin 65:	/DQM 3	: O :	SDRAM data byte enable (0V)
pin 66:	/CS 1	: - :	Not used
pin 67:	VSS IO	: - :	I/O pad ground (0V)
pin 68:	S/PDIF	: O :	S/PDIF digital audio output (1.3V)
pin 69:	VSS	: - :	Core ground (0V)
pin 70:	A IN	: IN :	Digital audio input for digital micro (3.3V)
pin 71:	A OUT 3	: O :	Serial audio data (Left/Right CH) (0V)
pin 72:	A OUT 2	: O :	Serial audio data (Center/LFE CH) (0V)
pin 73:	A OUT 1	: O :	Serial audio data (Sound Left/Right CH) (0V)
pin 74:	A OUT 0	: O :	Serial audio data (Left/Right CH) (0V)
pin 75:	VDD IO	: - :	I/O pad power (3.3V)
pin 76:	PCM CLK	: O :	Audio DAC PCM sampling clock (1.8V)
pin 77:	VDD	: - :	Core power (1.8V)
pin 78:	A CLK	: O :	Audio interface serial data clock (1.7V)
pin 79:	LR CLK	: O :	Left/Right channel clock (1.7V)
pin 80:	/SRST	: O :	Reset signal (3.3V)
pin 81:	/RSTP	: IN :	Power on reset (3.3V)
pin 82:	VSS IO	: - :	I/O pad ground (0V)
pin 83:	RXD 1	: - :	Not used
pin 84:	SSP IN 1	:I/O:	SSP1 data in / UART1 16X clock (1.5V)
pin 85:	VSS	: - :	Core ground (0V)
pin 86:	SSP OUT 1	:I/O:	SSP1 sata out / UART1 DTR (0V)
pin 87:	SSP CLK 1	:I/O:	SSP1 clock / UART1 CTS (3.3V)
pin 88:	SSP CLK 0	: - :	Not used
pin 89:	VDD	: - :	Core power (1.8V)
pin 90:	SS IN0	: - :	Not used
pin 91:	VDD IO	: - :	I/O pad power (3.3V)
pin 92:	SSP OUT 0	: - :	Not used
pin 93:	TX DO	: O :	UART0 serial data (3.2V)
pin 94:	RXD 0	: IN :	UART0 serial data (3V)
pin 95:	/CTS0	: - :	Not used
pin 96:	/RTS0	: - :	Not used
pin 97:	VSS IO	: - :	I/O pad ground (0V)
pin 98:	CXI	: IN :	Crystal Oscillator terminal (1.6V)
pin 99:	CXO	: - :	Not used
pin100:	OSC VSS	: - :	Oscillator ground (0V)
pin101:	OSC VDD	: - :	Oscillator power (1.8V)
pin102:	MVCK VDD	: - :	Main/Video clock PLL power (3.3V)
pin103:	SC EN	: - :	Not used
pin104:	MVCK VSS	: - :	Main/Video clock PLL Ground (0V)
pin105:	ACLK VSS	: - :	Audio clock PLL ground (0V)
pin106:	SC MD	: - :	Not used
pin107:	ACLK VDD	: - :	Audio clock PLL power (3.3V)
pin108:	VDD DAC	: - :	DAC digital power (1.8V)
pin109:	VSS DAC	: - :	DAC digital ground (0V)
pin110:	CVBS2/CR/R	: O :	Composite Cr/Component Cr/SCART Red (0.5V)
pin111:	IOM	: O :	Cascaded DAC differential output (1V)
pin112:	C/CB/B	: O :	Chrominance/Component Cb/SCART Cb (0.7V)
pin113:	VAA3	: - :	DAC analog power (3.3V)
pin114:	Y/G	: O :	Luminance/SCART G (0.4V)
pin115:	VSS A	: - :	DAC analog ground (0V)
pin116:	V REF	: - :	Not used
pin117:	VAA	: - :	(1.8V)
pin118:	CVBS/C	: O :	Composite/S-Video Chrominance (0.5V)
pin119:	RSET	: O :	Current setting resistor connection (1.4V)
pin120:	COMP	: O :	Compensation capacitor connection (2V)
pin121:	VSS	: - :	Core ground (0V)
pin122:	VCLK	: - :	Not used
pin123:	V SYNC	: - :	Not used
pin124:	H SYNC	: - :	Not used
pin125:	VDD IO	: - :	I/O pad power (3.4V)
pin126:	V I/O 7	: - :	Not used
pin127:	V I/O 6	: - :	Not used
pin128:	V I/O 5	: - :	Not used
pin129:	V I/O 4	: - :	Not used

pin130: V I/O 3 : - : Not used
pin131: V I/O 2 : - : Not used
pin132: VSS IO : - : I/O pad ground (0V)
pin133: V I/O 1 : - : Not used
pin134: V I/O 0 : - : Not used
pin135: VDD : - : Core power (1.9V)
pin136: AD 31 : - : Not used
pin137: AD 30 : - : Not used
pin138: AD 29 : - : Not used
pin139: AD 28 : - : Not used
pin140: VDD IO : - : I/O pad power (3.4V)
pin141: AD 27 : - : Not used
pin142: AD 26 : - : Not used
pin143: AD 25 : - : Not used
pin144: AD 24 : - : Not used
pin145: /PWE 3 : - : Not used
pin146: AD 23 : - : Not used
pin147: VSS IO : - : I/O pad ground (0V)
pin148: AD 22 : - : Not used
pin149: AD 21 : - : Not used
pin150: AD 20 : - : Not used
pin151: AD 19 :I/O: Address/Data bus (0V)
pin152: AD 18 :I/O: Address/Data bus (0V)
pin153: AD 17 :I/O: Address/Data bus (0V)
pin154: VDD IO : - : I/O pad power (3.4V)
pin155: AD 16 :I/O: Address/Data bus (0V)
pin156: /PWE 2 : - : Not used
pin157: AD 15 :I/O: Address/Data bus (0V)
pin158: AD 14 :I/O: Address/Data bus (0V)
pin159: VDD : - : Core power (1.9V)
pin160: S CLK : O : External bus clock (2.1V)
pin161: ACK : IN : Programmable WAIT/ACK/RDY control (3.4V)
pin162: VSS IO : - : I/O pad ground (0V)
pin163: AD 13 :I/O: Address/Data bus (0V)
pin164: AD 12 :I/O: Address/Data bus (0V)
pin165: AD 11 :I/O: Address/Data bus (0V)
pin166: AD 10 :I/O: Address/Data bus (0V)
pin167: AD 9 :I/O: Address/Data bus (0V)
pin168: AD 8 :I/O: Address/Data bus (0V)
pin169: VDD IO : - : I/O pad power (3.4V)
pin170: /PWE 1 : - : Not used
pin171: VSS : - : Core ground (0V)
pin172: AD 7 :I/O: Address/Data bus (0V)
pin173: AD 6 :I/O: Address/Data bus (0V)
pin174: AD 5 :I/O: Address/Data bus (0V)
pin175: AD 4 :I/O: Address/Data bus (0V)
pin176: AD 3 :I/O: Address/Data bus (0V)
pin177: VSS IO : - : I/O pad ground (0V)
pin178: AD 2 :I/O: Address/Data bus (0V)
pin179: AD 1 :I/O: Address/Data bus (0V)
pin180: AD 0 :I/O: Address/Data bus (0V)
pin181: VDD IO : - : I/O pad power (3.4V)
pin182: /PWE 0 : O : Byte write enable (0V)
pin183: ALE : O : Address latch enable (0V)
pin184: LA 0 : O : Latch address (3.3V)
pin185: LA 1 : O : Latch address (3.3V)
pin186: LA 2 : O : Latch address (3.3V)
pin187: LA 3 : O : Latch address (3.3V)
pin188: VSS IO : - : I/O pad ground (0V)
pin189: RD : O : Read signal (3.4V)
pin190: LHLDA : - : Not used
pin191: LHLD : - : Not used
pin192: VDD : - : Core power (1.9V)
pin193: /PCS 0 : O : Peripheral chip select 0 (3.4V)
pin194: XI01 : - : Not used
pin195: DAC CS 2 : O : DAC output select 2 (3.4V)
pin196: VDD IO : - : I/O pad power (3.4V)
pin197: DAC CS 1 : O : DAC output select 1 (3.4V)
pin198: NINT CPPM : - : Not used
pin199: CPPMCS : - : Not used
pin200: XI06 : - : Not used
pin201: VSS : - : Core ground (0V)
pin202: FRAM CS : O : FRAM chip selection (0V)
pin203: DAC RST : O : DAC reset (0V)
pin204: VSS IO : - : I/O pad ground (0V)
pin205: FEP CS : O : Front End Pro. LSI chip select (3.4V)
pin206: FEP RST : O : Front End Pro. reset (3.4V)
pin207: SODC CS : O : SODC LSI chip selection (3.4V)
pin208: NINT HOST : IN : HOST interrupt (3.4V)
pin209: NINT DDC : IN : DDC interrupt (3.2V)
pin210: VDD IO : - : I/O pad power (3.4V)
pin211: NINT DSC : IN : DSC interrupt (3.5V)
pin212: VDD : - : Core power (1.9V)
pin213: D SYNC : IN : DVD parallel mode sector SYNC (3.4V)
pin214: D REQ : O : DVD parallel mode data request (3.4V)
pin215: D CLK : IN : Data sampling clock (3.4V)
pin216: D STB : IN : Parallel mode data valid/Serial mode clock (0.7V)
pin217: DVD 0 : IN : DVD drive parallel data port (0V)
pin218: VSS IO : - : I/O pad ground (0V)
pin219: DVD 1 : IN : DVD drive parallel data port (0V)
pin220: DVD 2 : IN : DVD drive parallel data port (0V)
pin221: DVD 3 : IN : DVD drive parallel data port (3.4V)
pin222: DVD 4 : IN : DVD drive parallel data port (0.8V)
pin223: DVD 5 : IN : DVD drive parallel data port (0.8V)
pin224: VDD IO : - : I/O pad power (3.4V)
pin225: DVD 6 : IN : DVD drive parallel data port (3.4V)
pin226: DVD 7 : IN : DVD drive parallel data port (3.4V)
pin227: MD 0 :I/O: SDRAM data bus (0.5V)
pin228: VSS IO : - : I/O pad ground (0V)
pin229: MD 1 :I/O: SDRAM data bus (0V)
pin230: VSS : - : Core ground (0V)
pin231: MD 2 :I/O: SDRAM data bus (0.8V)
pin232: MD 3 :I/O: SDRAM data bus (0.8V)
pin233: VDD IO : - : I/O pad power (3.3V)
pin234: MD 4 :I/O: SDRAM data bus (3.3V)
pin235: MD 5 :I/O: SDRAM data bus (0V)
pin236: MD 6 :I/O: SDRAM data bus (0.8V)
pin237: VSS IO : - : I/O pad ground (0V)
pin238: MD 7 :I/O: SDRAM data bus (0V)
pin239: MD 8 :I/O: SDRAM data bus (0V)
pin240: MD 9 :I/O: SDRAM data bus (0V)

658-0244-03 C3ABPJ000072 512K x 32 x 4 banks SDRAM (MT48LC2M32B2TG)

Terminal Description

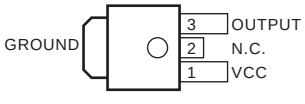
pin 1: VDD	: - :	Positive supply voltage.
pin 2: D 0	:I/O:	Data input/output.
pin 3: VDD	: - :	Positive supply voltage.
pin 4: D 1	:I/O:	Data input/output.
pin 5: D 2	:I/O:	Data input/output.
pin 6: VSS	: - :	Negative supply voltage.
pin 7: D 3	:I/O:	Data input/output.
pin 8: D 4	:I/O:	Data input/output.
pin 9: VDD	: - :	Positive supply voltage.
pin 10: D 5	:I/O:	Data input/output.
pin 11: D 6	:I/O:	Data input/output.
pin 12: VSS	: - :	Negative supply voltage.
pin 13: D 7	:I/O:	Data input/output.
pin 14: NU	: - :	Not in use.
pin 15: VDD	: - :	Positive supply voltage.
pin 16: DQM 0	:IN:	When DQM is sampled HIGH, input data is masked during a WRITE cycle, and the output buffers are placed in a High-Z state during a READ cycle. DQM 0 corresponds to D0-D7.
pin 17: WE	:IN:	Write enable signal input.
pin 18: CAS	:IN:	Column address strobe input.
pin 19: RAS	:IN:	Raw address strobe input.
pin 20: CS	:IN:	The chip select command input.
pin 21: NU	: - :	Not in use.
pin 22: BA 0	:IN:	Bank address input.
pin 23: BA 1	:IN:	Bank address input.
pin 24: A 10	:IN:	Address signal input.
pin 25: A 0	:IN:	Address signal input.
pin 26: A 1	:IN:	Address signal input.
pin 27: A 2	:IN:	Address signal input.
pin 28: DQM 2	:IN:	When DQM is sampled HIGH, input data is masked during a WRITE cycle, and the output buffers are placed in a High-Z state during a READ cycle. DQM 1 corresponds to D8-D15.
pin 29: VDD	: - :	Positive supply voltage.
pin 30: NU	: - :	Not in use.
pin 31: D 16	:I/O:	Data input/output.
pin 32: VSS	: - :	Negative supply voltage.
pin 33: D 17	:I/O:	Data input/output.
pin 34: D 18	:I/O:	Data input/output.
pin 35: VDD	: - :	Positive supply voltage.
pin 36: D 19	:I/O:	Data input/output.
pin 37: D 20	:I/O:	Data input/output.
pin 38: VSS	: - :	Negative supply voltage.
pin 39: D 21	:I/O:	Data input/output.
pin 40: D 22	:I/O:	Data input/output.
pin 41: VDD	: - :	Positive supply voltage.
pin 42: D 23	:I/O:	Data input/output.
pin 43: VDD	: - :	Positive supply voltage.
pin 44: VSS	: - :	Negative supply voltage.
pin 45: D 24	:I/O:	Data input/output.
pin 46: VSS	: - :	Negative supply voltage.
pin 47: D 25	:I/O:	Data input/output.
pin 48: D 26	:I/O:	Data input/output.
pin 49: VDD	: - :	Positive supply voltage.
pin 50: D 27	:I/O:	Data input/output.
pin 51: D 28	:I/O:	Data input/output.
pin 52: VSS	: - :	Negative supply voltage.
pin 53: D 29	:I/O:	Data input/output.
pin 54: D 30	:I/O:	Data input/output.
pin 55: VDD	: - :	Positive supply voltage.
pin 56: D 31	:I/O:	Data input/output.
pin 57: NU	: - :	Not in use.
pin 58: VSS	: - :	Negative supply voltage.
pin 59: DQM 3	:IN:	When DQM is sampled HIGH, input data is masked during a WRITE cycle, and the output buffers are placed in a High-Z state during a READ cycle. DQM 2 corresponds to D16-D23.
pin 60: A 3	:IN:	Address signal input.
pin 61: A 4	:IN:	Address signal input.
pin 62: A 5	:IN:	Address signal input.
pin 63: A 6	:IN:	Address signal input.
pin 64: A 7	:IN:	Address signal input.
pin 65: A 8	:IN:	Address signal input.
pin 66: A 9	:IN:	Address signal input.
pin 67: CKE	:IN:	Clock enable signal input.
pin 68: CLK	:IN:	The clock pulse input.
pin 69: NU	: - :	Not in use.
pin 70: NU	: - :	Not in use.
pin 71: DQM 1	:IN:	When DQM is sampled HIGH, input data is masked during a WRITE cycle, and the output buffers are placed in a High-Z state during a READ cycle. DQM 3 corresponds to D24-D31.
pin 72: VSS	: - :	Negative supply voltage.
pin 73: NU	: - :	Not in use.
pin 74: D 8	:I/O:	Data input/output.
pin 75: VDD	: - :	Positive supply voltage.
pin 76: D 9	:I/O:	Data input/output.
pin 77: D 10	:I/O:	Data input/output.
pin 78: VSS	: - :	Negative supply voltage.
pin 79: D 11	:I/O:	Data input/output.
pin 80: D 12	:I/O:	Data input/output.
pin 81: VDD	: - :	Positive supply voltage.
pin 82: D 13	:I/O:	Data input/output.
pin 83: D 14	:I/O:	Data input/output.
pin 84: VSS	: - :	Negative supply voltage.
pin 85: D 15	:I/O:	Data input/output.
pin 86: VSS	: - :	Negative supply voltage.

658-0245-02 C0FBBK000048 24-bit 2-ch DA Converter (AK4381)

Terminal Description

pin 1: MASTER CLK	:IN:	Master clock input.
pin 2: BICK	:IN:	Audio bit clock input.
pin 3: S DATA IN	:IN:	Audio serial data input.
pin 4: LR CK IN	:IN:	Left/Right clock input.
pin 5: PDN	:IN:	Power down & reset signal input.
pin 6:CSN	:IN:	Chip selection.
pin 7:C CLK	:IN:	Control data clock input.
pin 8:C DTI	:IN:	Control data input.
pin 9: A out R-	: O :	Audio signal right channel negative output.
pin 10: A out R+	: O :	Audio signal right channel positive output.
pin 11: A out L-	: O :	Audio signal left channel negative output.
pin 12: A out L+	: O :	Audio signal left channel positive output.
pin 13: VSS	: - :	Negative supply voltage.
pin 14: VDD	: - :	Positive supply voltage.
pin 15: DZF R	: O :	Zero detection flag output.
pin 16: DZF L	: O :	Zero detection flag output.

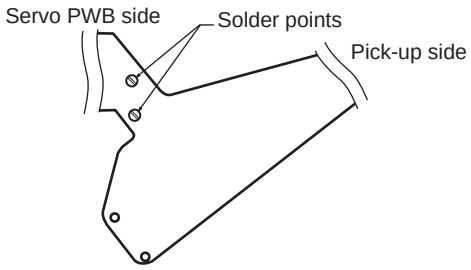
658-0244-02 YEAM17805FP Positive Voltage Regurator 5.0V (BA17805FP)



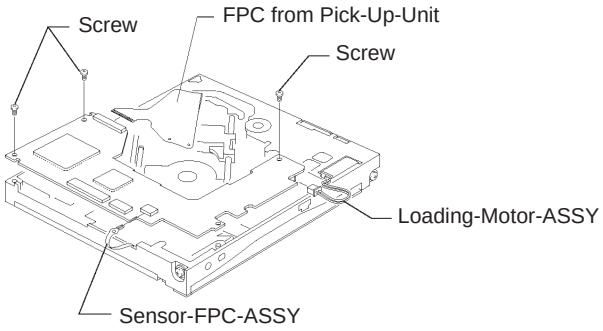
DISASSEMBLY

Remove Servo-PWB

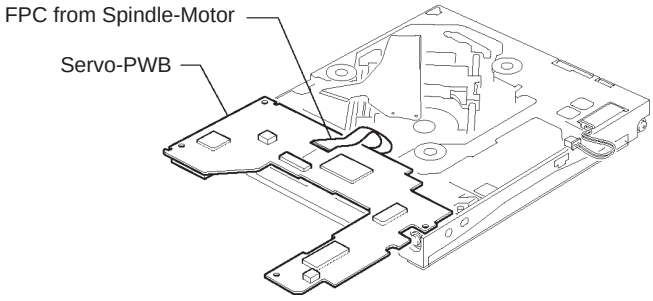
1. Solder two points of FPC to prevent destruction with static electricity.



2. Remove FCPs from PICK-UP-UNIT and SENSOR-FPC-ASSY.
3. Remove three SCREWS.
4. Remove the connector of LOADING-MOTOR-ASSY.

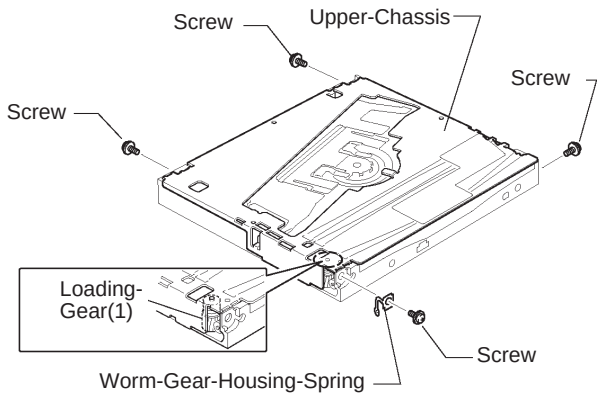


5. Remove FPC of SPINDLE-MOTOR-ASSY.



Remove UPPER-CHASSIS

1. Remove four SCREWS and WORM-GEAR-HOUSING-SPRINGS.

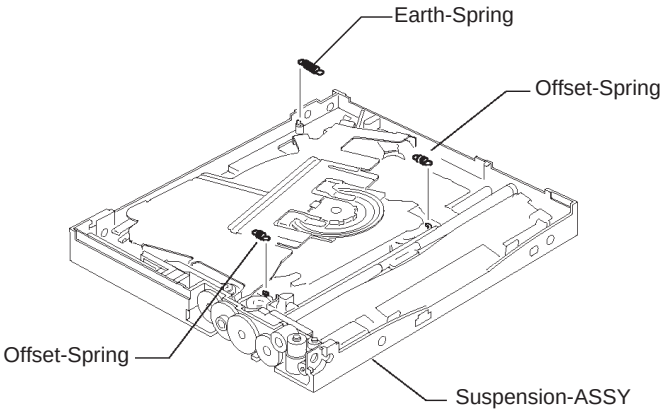


[NOTE]

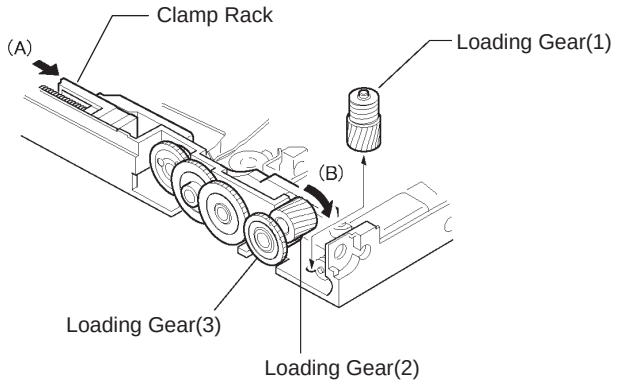
When assembling,insert the shaft of LOADING-GEAR to the hole of UPPER-CHASSIS.

Remove SUSPENSION-ASSY

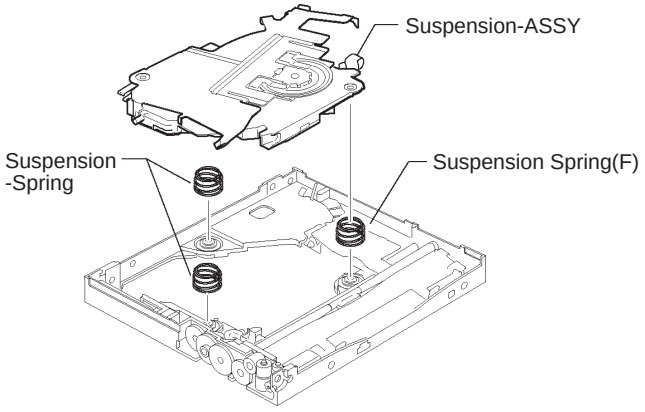
1. Remove EARTH-SPRING and OFFSET-SPRINGS.



2. Remove LOADING-GEAR(1).
3. Move CLAMP-RACK to GEAR side(Point "A").Pull LOADING-GEAR(3) up, and rotate it until the lock is released(Point "B").
4. Return LOADING-GEAR(1) to the original position.

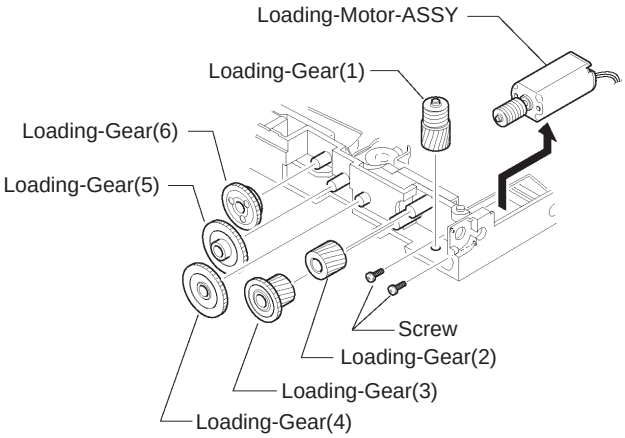


5. Remove SUSPENSION-ASSY, SUSPENSION-SPRINGS and SUSPENSION-SPRING(F).

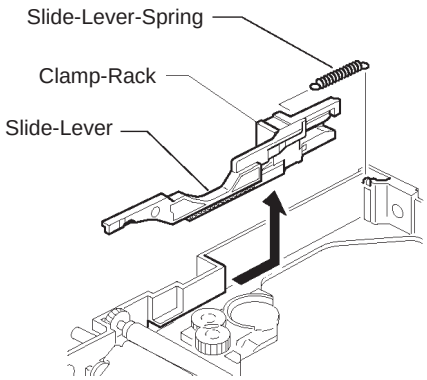


Remove LOADING-GEAR/LOADING-MOTOR

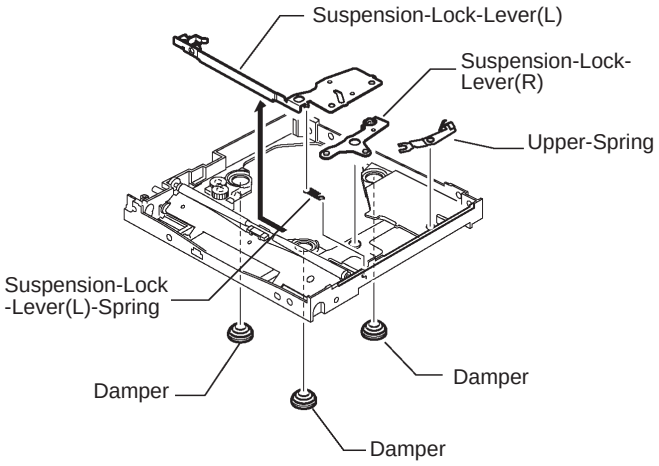
1. Remove six LOADING-GEARS in the following order. (1) > (4) > (3) > (2) > (5) > (6)
2. Remove two SCREWS,and remove LOADING-MOTOR-ASSY.



3. Remove SLIDE-LEVER-SPRING, and remove SLIDE-LEVER and CLAMP-RACK

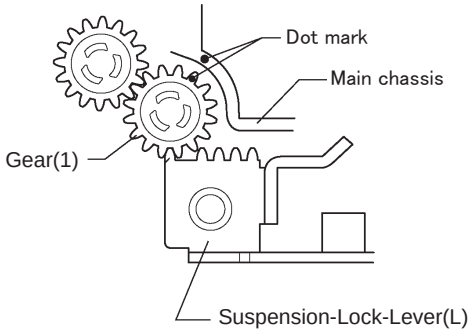


4. Remove SUSPENSION-LOCK-LEVER(L)-SPRING and SUSPENSION-LOCK-LEVER(L)
5. Remove SUSPENSION-LOCK-LEVER(R) and UPPER-SPRING.
6. Remove three DAMPERS.

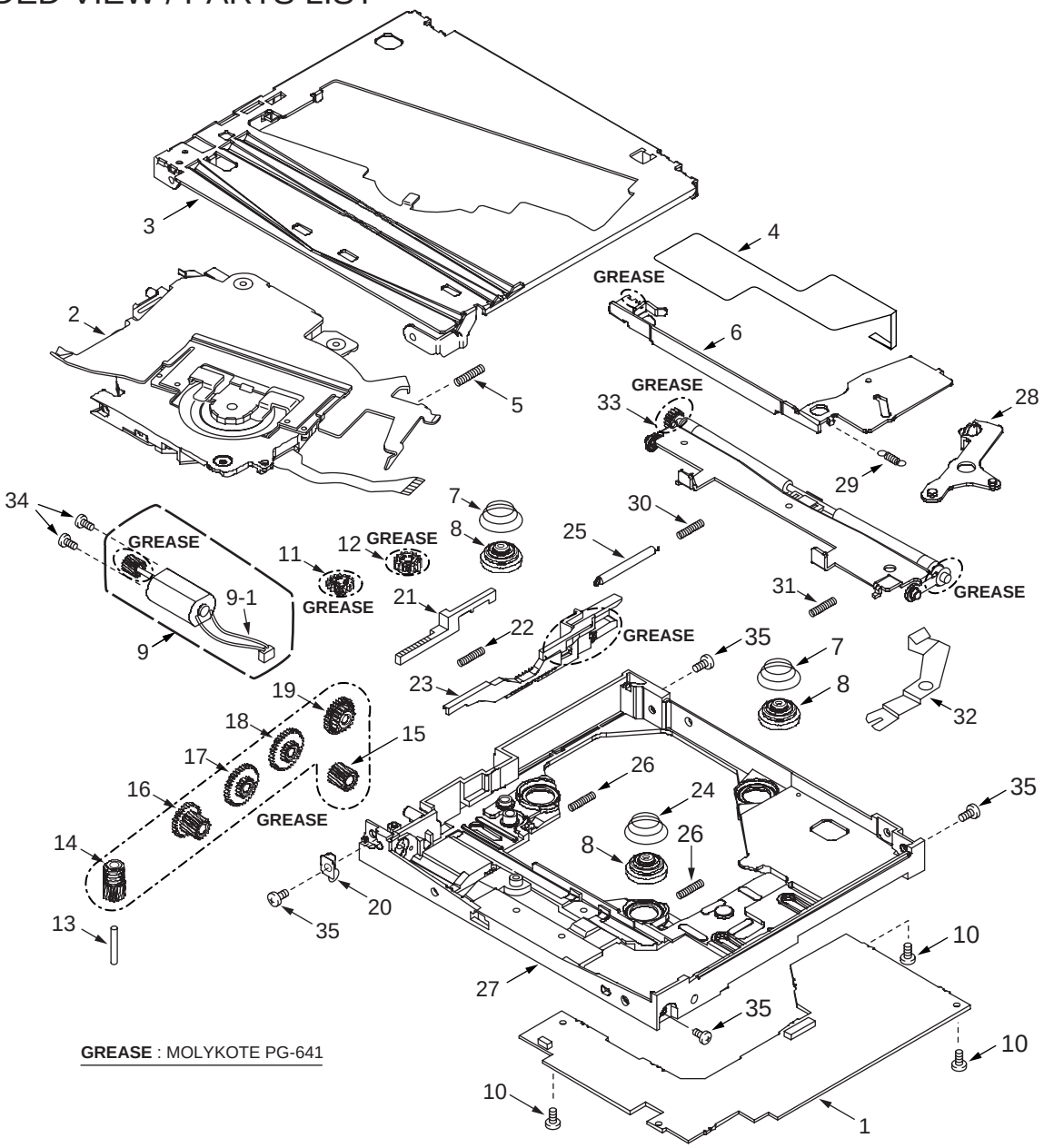


[NOTE]

When assembling, set the dot marks of LOCK-GEAR(1) and MAIN-CHASSIS.



EXPLODED VIEW / PARTS LIST



NO.	PART NO.	DESCRIPTION	Q'TY
1	----------	Servo PWB	1
2	658-0244-15	Suspension Assy	1
3	658-0244-16	Upper Chassis	1
4	658-0244-17	Sensor FPC Assy	1
5	658-0237-88	Earth Spring	1
6	658-0239-06	Suspension Lock Lever (L)	1
7	658-0237-90	Suspension Spring	2
8	658-0239-07	Damper	3
9	658-0237-92	Loading Motor Assy	1
9-1	658-0237-93	Connector w/Lead Wire	1
10	658-0238-23	Screw	3
11	658-0237-94	Lock Gear (1)	1
12	658-0237-95	Lock Gear (2)	1
13	658-0237-96	Loading Gear Shaft	1
14	658-0237-97	Laoding Gear (1)	1
15	658-0237-98	Laoding Gear (2)	1
16	658-0237-99	Laoding Gear (3)	1
17	658-0238-01	Laoding Gear (4)	1

NO.	PART NO.	DESCRIPTION	Q'TY
18	658-0238-02	Laoding Gear (5)	1
19	658-0238-03	Laoding Gear (6)	1
20	658-0238-04	Worm Gear Housing Spring	1
21	658-0238-05	Clamp Rack	1
22	658-0238-06	Clamp Rack Spring	1
23	658-0244-18	Slide Lever	1
24	658-0238-08	Suspension Spring (F)	1
25	658-0238-09	Slide Lever Spring	1
26	658-0238-10	Offset Spring	2
27	658-0238-11	Main Chassis	1
28	658-0238-12	Suspension Lock Lever (R)	1
29	658-0238-13	Suspension Lock Lever L Spring	1
30	658-0238-15	Feeder Spring (L)	1
31	658-0238-16	Feeder Spring (R)	1
32	658-0238-17	Upper Spring	1
33	658-0244-19	Feeder Arm Assy	1
34	658-0238-21	Screw	2
35	658-0244-20	Screw	4

ELECTRICAL PARTS LIST

Servo PWB(BM1) section

REF No.	PART No.	DESCRIPTION
C101	658-0237-26	50V560pF
C102	658-0240-12	0.1uF 10WV
C103	658-0237-29	50V0.001uF
C104	658-0237-29	50V0.001uF
C113	658-0240-12	0.1uF 10WV
C114	658-0240-13	10uF 6.3WV
C115	658-0240-13	10uF 6.3WV
C116	658-0237-29	50V0.001uF
C117	658-0240-13	10uF 6.3WV
C121	658-0237-30	50V6pF
C122	658-0240-13	10uF 6.3WV
C124	658-0240-12	0.1uF 10WV
C125	658-0240-12	0.1uF 10WV
C126	658-0237-28	25V0.027uF
C127	658-0237-27	16V0.047uF
C128	658-0240-12	0.1uF 10WV
C129	658-0237-25	50V100pF
C131	658-0237-26	50V560pF
C132	658-0237-26	50V560pF
C133	658-0240-12	0.1uF 10WV
C134	658-0240-12	0.1uF 10WV
C136	658-0240-12	0.1uF 10WV
C137	658-0240-13	10uF 6.3WV
C141	658-0237-24	16V0.01uF
C142	658-0240-12	0.1uF 10WV
C143	658-0240-12	0.1uF 10WV
C144	658-0240-12	0.1uF 10WV
C145	658-0240-12	0.1uF 10WV
C151	658-0240-12	0.1uF 10WV
C152	658-0237-21	6.3V47uF Tan
C153	658-0240-12	0.1uF 10WV
C154	658-0237-21	6.3V47uF Tan
C201	658-0240-12	0.1uF 10WV
C202	658-0240-12	0.1uF 10WV
C203	658-0240-12	0.1uF 10WV
C204	658-0240-12	0.1uF 10WV
C205	658-0240-12	0.1uF 10WV
C206	658-0237-25	50V100pF
C207	658-0240-13	10uF 6.3WV
C208	658-0240-13	10uF 6.3WV
C211	658-0240-12	0.1uF 10WV
C213	658-0237-25	50V100pF
C214	658-0237-25	50V100pF
C215	658-0237-24	16V0.01uF
C216	658-0237-24	16V0.01uF
C221	658-0244-06	Ceramic,50WV22PF
C222	658-0244-06	Ceramic,50WV22PF
C223	658-0240-12	0.1uF 10WV
C224	658-0240-12	0.1uF 10WV
C225	658-0240-12	0.1uF 10WV
C226	658-0240-12	0.1uF 10WV
C231	658-0237-24	16V0.01uF
C232	658-0240-12	0.1uF 10WV
C234	658-0237-24	16V0.01uF
C235	658-0240-13	10uF 6.3WV
C236	658-0240-12	0.1uF 10WV
C237	658-0237-32	16V0.022uF
C239	658-0237-33	50V47pF
C240	658-0240-12	0.1uF 10WV
C241	658-0240-12	0.1uF 10WV
C242	658-0237-29	50V0.001uF
C243	658-0240-12	0.1uF 10WV
C244	658-0237-34	50V0.0056uF
C245	658-0237-29	50V0.001uF
C246	658-0237-29	50V0.001uF
C247	658-0237-29	50V0.001uF
C248	658-0237-26	50V560pF

REF No.	PART No.	DESCRIPTION
C249	658-0237-26	50V560pF
C250	658-0240-12	0.1uF 10WV
C251	658-0237-35	50V0.0022uF
C252	658-0237-36	50V470pF
C253	658-0240-12	0.1uF 10WV
C261	658-0240-12	0.1uF 10WV
C262	658-0240-12	0.1uF 10WV
C263	658-0240-12	0.1uF 10WV
C264	658-0240-12	0.1uF 10WV
C265	658-0240-12	0.1uF 10WV
C266	658-0240-12	0.1uF 10WV
C271	658-0240-12	0.1uF 10WV
C272	658-0240-12	0.1uF 10WV
C275	658-0240-12	0.1uF 10WV
C311	658-0240-12	0.1uF 10WV
C312	658-0244-07	Ceramic,50WV0.1uF
C313	658-0240-12	0.1uF 10WV
C314	658-0244-07	Ceramic,50WV0.1uF
C315	658-0240-12	0.1uF 10WV
C316	658-0240-12	0.1uF 10WV
C321	658-0240-12	0.1uF 10WV
C322	658-0244-07	Ceramic,50WV0.1uF
C323	658-0240-12	0.1uF 10WV
C324	658-0240-12	0.1uF 10WV
C325	658-0240-12	0.1uF 10WV
C401	658-0237-29	50V0.001uF
C402	658-0237-29	50V0.001uF
C403	658-0237-29	50V0.001uF
C404	658-0237-29	50V0.001uF
C405	658-0240-12	0.1uF 10WV
C406	658-0240-14	47uF 6.3WV
C411	658-0244-07	Ceramic,50WV0.1uF
C412	658-0240-43	10uF 16WV
C413	658-0240-42	1uF 6.3WV
C414	658-0240-14	47uF 6.3WV
C421	658-0244-07	Ceramic,50WV0.1uF
C422	658-0240-14	47uF 6.3WV
C423	658-0240-12	0.1uF 10WV
C431	658-0240-12	0.1uF 10WV
C432	658-0240-12	0.1uF 10WV
C433	658-0240-12	0.1uF 10WV
C441	658-0240-12	0.1uF 10WV
C501	658-0237-25	50V100pF
C502	658-0237-25	50V100pF
C503	658-0237-25	50V100pF
C504	658-0237-25	50V100pF
C505	658-0237-25	50V100pF
C506	658-0237-25	50V100pF
C507	658-0237-25	50V100pF
C508	658-0237-25	50V100pF
C509	658-0237-25	50V100pF
C511	658-0240-13	10uF 6.3WV
C512	658-0240-13	10uF 6.3WV
C513	658-0237-25	50V100pF
C514	658-0240-12	0.1uF 10WV
C515	658-0237-25	50V100pF
C516	658-0240-12	0.1uF 10WV
C517	658-0237-25	50V100pF
C518	658-0240-12	0.1uF 10WV
C521	658-0240-12	0.1uF 10WV
C522	658-0240-13	10uF 6.3WV
C523	658-0240-13	10uF 6.3WV
C524	658-0240-12	0.1uF 10WV
C525	658-0240-12	0.1uF 10WV
C526	658-0240-13	10uF 6.3WV
C527	658-0240-12	0.1uF 10WV
C528	658-0240-12	0.1uF 10WV

REF No.	PART No.	DESCRIPTION
C529	658-0240-12	0.1uF 10WV
C530	658-0240-13	10uF 6.3WV
C531	658-0240-13	10uF 6.3WV
C532	658-0240-12	0.1uF 10WV
C534	658-0240-12	0.1uF 10WV
C541	658-0240-13	10uF 6.3WV
C542	658-0240-13	10uF 6.3WV
C543	658-0240-12	0.1uF 10WV
C544	658-0240-12	0.1uF 10WV
C545	658-0240-12	0.1uF 10WV
C546	658-0240-12	0.1uF 10WV
C547	658-0240-12	0.1uF 10WV
C548	658-0240-12	0.1uF 10WV
C551	658-0240-12	0.1uF 10WV
C552	658-0240-12	0.1uF 10WV
C553	658-0240-12	0.1uF 10WV
C554	658-0240-12	0.1uF 10WV
C555	658-0240-12	0.1uF 10WV
C556	658-0240-12	0.1uF 10WV
C557	658-0237-25	50V100pF
C561	658-0240-12	0.1uF 10WV
C601	658-0240-42	1uF 6.3WV
C602	658-0237-25	50V100pF
C603	658-0237-25	50V100pF
C604	658-0237-25	50V100pF
C605	658-0237-25	50V100pF
C606	658-0237-25	50V100pF
C607	658-0237-25	50V100pF
C608	658-0237-25	50V100pF
C609	658-0237-25	50V100pF
C611	658-0240-42	1uF 6.3WV
C612	658-0237-25	50V100pF
C613	658-0237-25	50V100pF
C614	658-0237-25	50V100pF
C616	658-0237-25	50V100pF
C621	658-0240-12	0.1uF 10WV
C622	658-0237-25	50V100pF
C623	658-0240-12	0.1uF 10WV
C631	658-0240-12	0.1uF 10WV
C641	658-0240-12	0.1uF 10WV
C651	658-0240-12	0.1uF 10WV
C652	658-0240-13	10uF 6.3WV
C653	658-0240-12	0.1uF 10WV
C701	658-0240-44	330PF 50WV
C702	658-0240-44	330PF 50WV
C703	658-0244-08	Ceramic, 50WV120PF
C722	658-0240-13	10uF 6.3WV
C723	658-0240-12	0.1uF 10WV
CN101	658-0237-47	Connector 30P
CN201	658-0237-46	Connector 40P
CN301	658-0237-50	Connector 4P
CN302	658-0237-49	Connector 2P
CN303	658-0237-48	Connector 20P
CN401	658-0244-12	Connector,12P
CN701	658-0237-47	Connector 30P
D311	658-0237-19	MA721TX
IC101	658-0237-01	AN8703FH-V
IC201	658-0240-01	MNZS26EDCUB
IC271	658-0237-04	YEAMT7ST08UL
IC275	658-0244-01	C0JBAZ001014
IC311	658-0237-08	C0GBY0000012
IC321	658-0237-09	C0GBH0000006
IC411	658-0240-41	YEAMC78L05E2
IC421	658-0244-02	YEAM17805FP
IC431	658-0240-02	C0JBAA000102
IC441	658-0237-03	MN13821JP

REF No.	PART No.	DESCRIPTION
IC501	658-0245-01	C1AB00001622
IC561	658-0244-01	C0JBAZ001014
IC601	658-0244-03	C3ABPJ000072
IC621	658-0240-36	C3FBMG000017
IC631	658-0240-37	C0JBAH000082
IC641	658-0240-37	C0JBAH000082
IC651	658-0240-38	C3GBCC000001
IC652	658-0240-39	C0JBAB000255
IC721	658-0245-02	C0FBBK000048
L101	658-0240-30	J0JCC0000152
L102	658-0240-30	J0JCC0000152
L201	658-0240-30	J0JCC0000152
L401	658-0240-32	YELTBMHS800T
L403	658-0240-32	YELTBMHS800T
L404	658-0240-32	YELTBMHS800T
L406	658-0240-32	YELTBMHS800T
L511	658-0240-52	J0JCC0000042
L512	658-0240-56	J0MAB0000134
L513	658-0240-30	J0JCC0000152
L514	658-0240-30	J0JCC0000152
L515	658-0240-30	J0JCC0000152
L516	658-0240-30	J0JCC0000152
L541	658-0240-30	J0JCC0000152
L701	658-0240-46	470PF 50WV
L702	658-0240-46	470PF 50WV
L703	658-0240-57	J0MAB0000015
L704	658-0240-57	J0MAB0000015
L705	658-0240-54	G1C2R2K00001
L721	658-0240-53	YELTBLM2A102
L722	658-0240-53	YELTBLM2A102
L723	658-0240-53	YELTBLM2A102
L724	658-0240-53	YELTBLM2A102
Q151	658-0237-14	TR 2SB766ATX
Q152	658-0237-14	TR 2SB766ATX
Q153	658-0240-10	B1GDCFNN0007
Q154	658-0240-11	B1GBCFNN0009
Q251	658-0244-04	Transistor B3HB00000023
Q252	658-0244-04	Transistor B3HB00000023
Q253	658-0244-04	Transistor B3HB00000023
Q301	658-0237-18	TR B1GBGEEA0001
Q321	658-0244-05	Transistor B1GBGFGG0001
R101	033-1231-15	1/16W 12k ohm
R102	033-1231-15	1/16W 12k ohm
R103	658-0237-41	1/16W 24k ohm
R104	658-0237-42	1/16W 3.9k ohm Metal
R106	658-0237-43	1/16W 18k ohm Metal
R107	033-4721-15	1/16W 4.7k ohm
R110	033-2021-15	1/16W 2k ohm
R121	033-1221-15	1/16W 1.2k ohm
R131	033-1051-15	1/16W 1M ohm
R132	033-1051-15	1/16W 1M ohm
R141	033-1031-15	1/16W 10k ohm
R142	033-1031-15	1/16W 10k ohm
R151	033-2291-15	1/16W 2.2 ohm
R152	658-0237-40	1/2W 20 ohm
R153	033-2291-15	1/16W 2.2 ohm
R154	658-0237-40	1/2W 20 ohm
R155	033-1021-15	1/16W 1k ohm
R156	033-3331-15	1/16W 33k ohm
R157	033-2231-15	1/16W 22k ohm
R201	033-4711-15	1/16W 470 ohm

REF No.	PART No.	DESCRIPTION
R202	033-1031-15	1/16W 10k ohm
R203	033-1031-15	1/16W 10k ohm
R212	658-0240-18	150 ohm 1/16W
R214	033-4721-15	1/16W 4.7k ohm
R215	033-4721-15	1/16W 4.7k ohm
R216	033-2731-15	1/16W 27k ohm
R217	033-2731-15	1/16W 27k ohm
R218	033-1031-15	1/16W 10k ohm
R219	033-3321-15	1/16W 3.3k ohm
R220	033-3321-15	1/16W 3.3k ohm
R221	033-1051-15	1/16W 1M ohm
R222	033-4711-15	1/16W 470 ohm
R223	033-3931-15	1/16W 39k ohm
R227	033-0000-05	1/16W 0 ohm
R231	033-1021-15	1/16W 1k ohm
R232	033-1531-15	1/16W 15k ohm
R234	033-1051-15	1/16W 1M ohm
R235	033-5621-15	1/16W 5.6k ohm
R236	033-5621-15	1/16W 5.6k ohm
R251	033-1031-15	1/16W 10k ohm
R252	033-4731-15	1/16W 47k ohm
R253	033-1531-15	1/16W 15k ohm
R254	033-1531-15	1/16W 15k ohm
R255	033-1531-15	1/16W 15k ohm
R261	658-0237-56	Resistor Network
R262	658-0244-14	NetworkResistor
R263	658-0244-09	Chip,1/16W27 ohm
R264	033-2201-15	1/16W 22 ohm
R265	033-2201-15	1/16W 22 ohm
R266	033-0000-05	1/16W 0 ohm
R267	033-1031-15	1/16W 10k ohm
R268	033-1021-15	1/16W 1k ohm
R269	033-1031-15	1/16W 10k ohm
R270	033-3931-15	1/16W 39k ohm
R271	658-0237-56	Resistor Network
R272	658-0237-58	Resistor Network
R273	658-0237-58	Resistor Network
R274	658-0244-14	NetworkResistor
R275	033-2201-15	1/16W 22 ohm
R276	033-2201-15	1/16W 22 ohm
R277	033-2201-15	1/16W 22 ohm
R278	033-2201-15	1/16W 22 ohm
R279	033-2201-15	1/16W 22 ohm
R280	033-2201-15	1/16W 22 ohm
R281	033-2201-15	1/16W 22 ohm
R282	033-2201-15	1/16W 22 ohm
R283	033-2201-15	1/16W 22 ohm
R284	033-2201-15	1/16W 22 ohm
R285	033-2201-15	1/16W 22 ohm
R286	033-2201-15	1/16W 22 ohm
R287	033-2201-15	1/16W 22 ohm
R288	033-2201-15	1/16W 22 ohm
R289	033-2201-15	1/16W 22 ohm
R290	033-2201-15	1/16W 22 ohm
R291	033-3931-15	1/16W 39k ohm
R292	033-3931-15	1/16W 39k ohm
R293	033-3931-15	1/16W 39k ohm
R294	033-3931-15	1/16W 39k ohm
R295	033-3931-15	1/16W 39k ohm
R296	033-3931-15	1/16W 39k ohm
R297	033-3931-15	1/16W 39k ohm
R298	033-3931-15	1/16W 39k ohm
R301	033-1811-15	1/16W 180 ohm
R302	033-1811-15	1/16W 180 ohm
R303	033-1811-15	1/16W 180 ohm
R311	033-4731-15	1/16W 47k ohm
R312	033-1811-15	1/16W 180 ohm

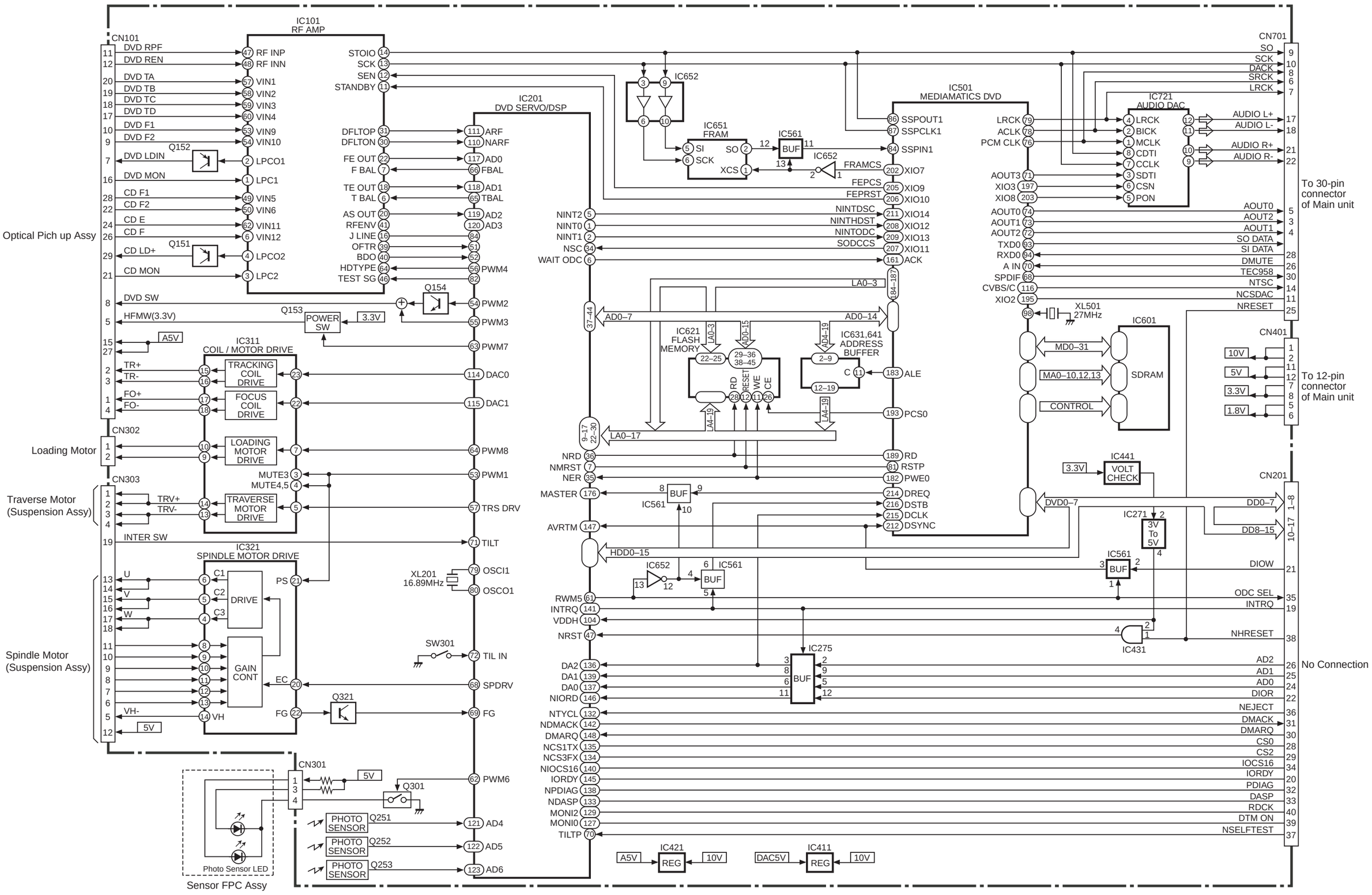
REF No.	PART No.	DESCRIPTION
R313	033-6821-15	1/16W 6.8k ohm
R314	033-5621-15	1/16W 5.6k ohm
R315	033-5621-15	1/16W 5.6k ohm
R316	033-1031-15	1/16W 10k ohm
R317	033-5621-15	1/16W 5.6k ohm
R321	033-4721-15	1/16W 4.7k ohm
R322	033-4731-15	1/16W 47k ohm
R323	658-0244-10	Chip,1/8W0.51 ohm
R324	033-1011-15	1/16W 100 ohm
R325	033-1011-15	1/16W 100 ohm
R327	117-0000-10	0Ω
R431	658-0240-23	100k ohm 1/16W
R441	033-4731-15	1/16W 47k ohm
R501	033-1011-15	1/16W 100 ohm
R511	658-0240-47	33 ohm 1/16W
R512	033-1011-15	1/16W 100 ohm
R513	033-1011-15	1/16W 100 ohm
R514	658-0240-18	150 ohm 1/16W
R515	033-3931-15	1/16W 39k ohm
R516	033-4731-15	1/16W 47k ohm
R517	033-4731-15	1/16W 47k ohm
R518	033-2201-15	1/16W 22 ohm
R519	033-2201-15	1/16W 22 ohm
R521	033-1011-15	1/16W 100 ohm
R522	658-0240-47	33 ohm 1/16W
R523	116-1001-10	1/8W 10 ohm
R524	658-0240-47	33 ohm 1/16W
R525	658-0240-47	33 ohm 1/16W
R526	658-0240-18	150 ohm 1/16W
R527	658-0244-11	Chip,1/16W1k ohm
R528	658-0240-48	75 ohm 1/10W
R541	033-3321-15	1/16W 3.3k ohm
R543	033-4711-15	1/16W 470 ohm
R552	033-1031-15	1/16W 10k ohm
R553	033-1031-15	1/16W 10k ohm
R554	033-2021-15	1/16W 2k ohm
R555	033-3931-15	1/16W 39k ohm
R556	033-3931-15	1/16W 39k ohm
R557	033-3931-15	1/16W 39k ohm
R570	033-4711-15	1/16W 470 ohm
R571	033-4711-15	1/16W 470 ohm
R572	033-4711-15	1/16W 470 ohm
R573	033-4711-15	1/16W 470 ohm
R574	033-4711-15	1/16W 470 ohm
R575	033-4711-15	1/16W 470 ohm
R576	033-4711-15	1/16W 470 ohm
R577	033-4711-15	1/16W 470 ohm
R621	658-0240-18	150 ohm 1/16W
R623	033-1031-15	1/16W 10k ohm
R631	658-0240-50	75 ohm 1/16W
R651	033-2021-15	1/16W 2k ohm
R701	033-1011-15	1/16W 100 ohm
R702	033-1011-15	1/16W 100 ohm
R703	033-1011-15	1/16W 100 ohm
R704	033-0000-05	1/16W 0 ohm
R705	033-0000-05	1/16W 0 ohm
R706	033-0000-05	1/16W 0 ohm
R707	033-1011-15	1/16W 100 ohm
R708	033-1011-15	1/16W 100 ohm
R709	033-2211-15	1/16W 220 ohm
R711	118-0000-10	0Ω
R712	118-0000-10	0Ω
R713	033-2211-15	1/16W 220 ohm
R714	033-2211-15	1/16W 220 ohm
R715	033-2211-15	1/16W 220 ohm
R716	033-2211-15	1/16W 220 ohm
R717	033-1011-15	1/16W 100 ohm

REF No.	PART No.	DESCRIPTION
R718	033-1011-15	1/16W 100 ohm
R721	033-1011-15	1/16W 100 ohm
R722	033-1011-15	1/16W 100 ohm
R723	033-1011-15	1/16W 100 ohm

REF No.	PART No.	DESCRIPTION
R724	033-1011-15	1/16W 100 ohm
R725	033-1011-15	1/16W 100 ohm
SW301	658-0244-13	Switch
		K0L1BA000104

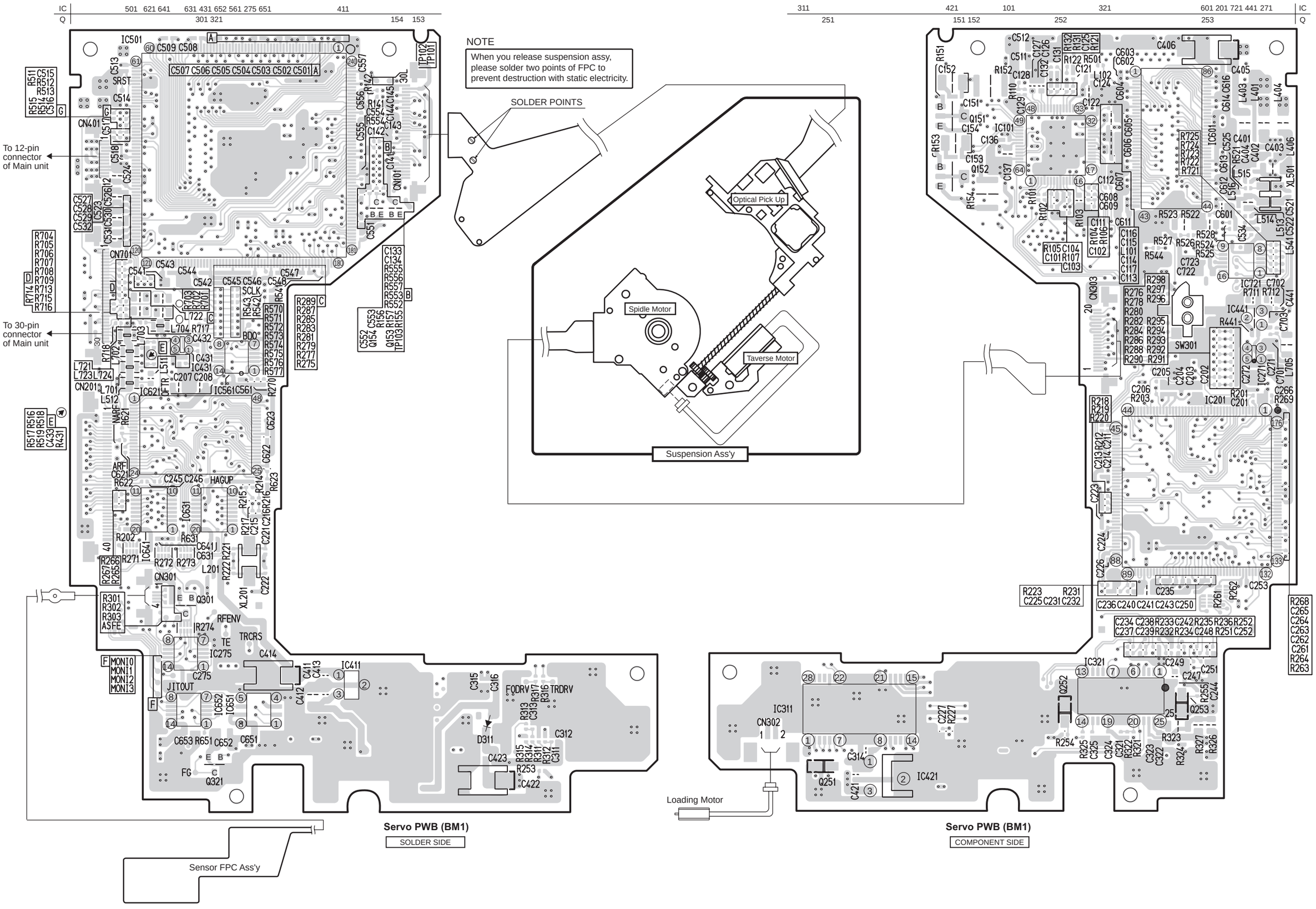
REF No.	PART No.	DESCRIPTION
XL201	658-0237-52	H0J168500003
XL501	658-0239-02	Crystal Oscillator

BLOCK DIAGRAM



PRINTED WIRING BOARD

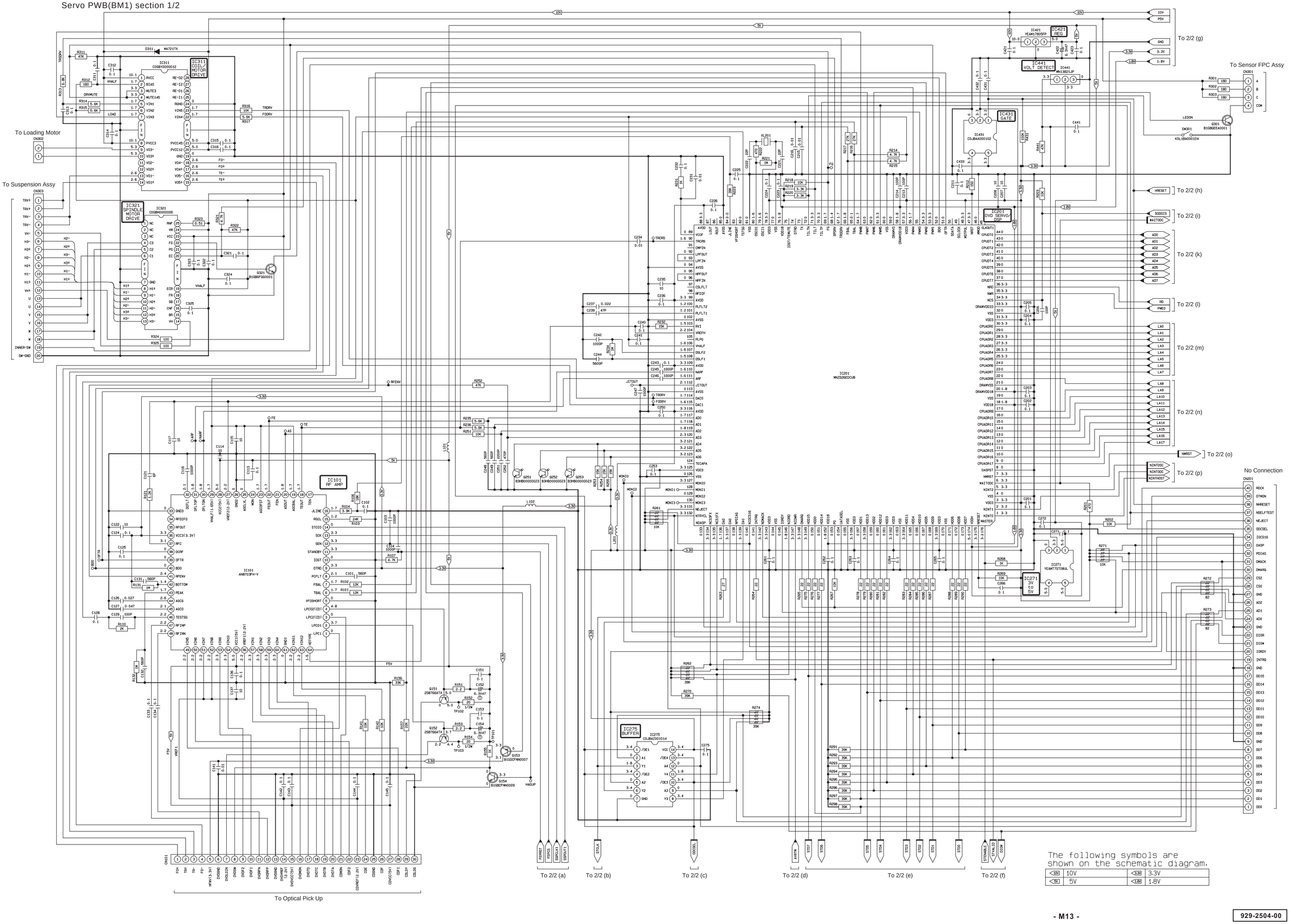
Servo PWB(BM1) section



929-2504-00

CIRCUIT DIAGRAM

Servo PWB(BM1) section 1/2



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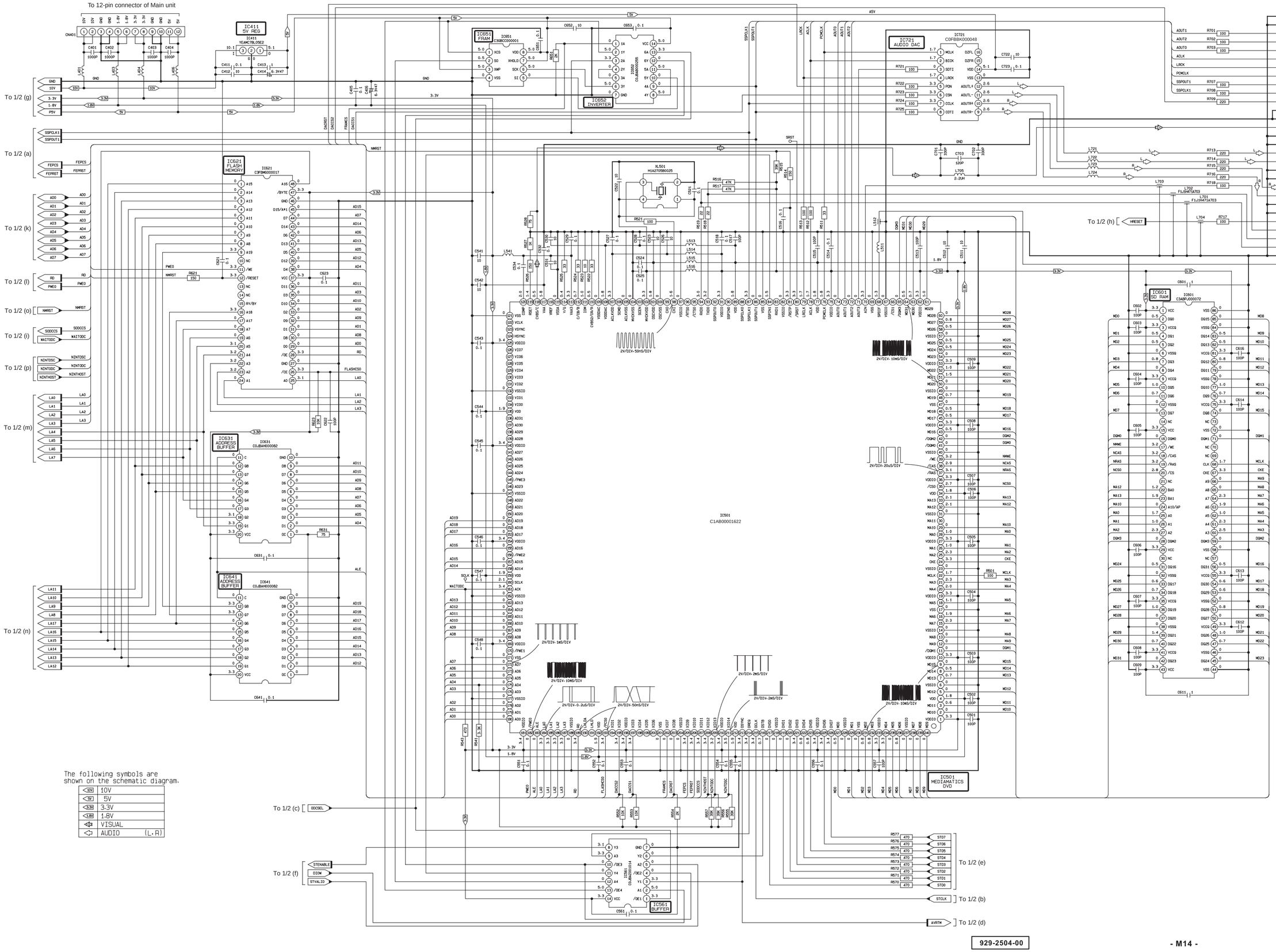
Servo PWB(BM1) section 2/2



The following symbols are shown on the schematic diagram.

10V	10V
5V	5V
3.3V	3.3V
1.8V	1.8V
	VISUAL
	AUDIO (L.R)